



REPORT

OF THE

County Medical Officer of Health

For the Year ended December 31st, 1956

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Introduction

*To the Chairman and Members
of the County Health Committee.*

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present my Annual Report on the health of the administrative county of Cheshire for the year 1956.

The estimated population of the county increased during the year by 10,200, so that the Registrar-General's figure for mid-1956 was 850,400. The number of births per 1,000 population showed an increase from 14.1 in 1955 to 14.98 in 1956; the death rate was very slightly increased from 12.2 to 12.3 and the still-birth rate increased from 22.4 to 24.1 per 1,000 births.

There has been no death from diphtheria since 1950, but it is disquieting to note a reduction in immunisations against this disease. On the other hand, vaccinations against whooping cough have again increased and in 1956 the number of children vaccinated against whooping cough almost equalled those immunised against diphtheria.

The infantile mortality, that is the number of deaths of infants under one year of age per 1,000 live births was 22.5, the lowest ever recorded in the county.

The response to B.C.G. vaccination of school leavers against tuberculosis remains at a very satisfactory level; approximately 74% of school leavers were tested to determine the presence of antibodies to tuberculous infection, and of these 67% were eventually vaccinated, the remainder either did not attend the clinics or were found positive to the Mantoux test.

Approximately 35% of the children, (35,417) in the specified age groups were registered to receive poliomyelitis vaccine. Up to the time of writing, 29,911 of these have been given appointments to attend clinics for vaccination, and 26,295 have been vaccinated.

Section II of this Report dealing with Births and Deaths has been considerably enlarged on this occasion, firstly to show the trends in the causation of deaths at all ages over the last ten years, and also to give prominence to the increasing comparative death rate of males to females between the ages of 45 and 64. Deaths from malignant disease apart from cancer of the lungs and bronchi, have remained at a steady level but those from cancer of the respiratory organs are still increasing, by as much as 80% since 1950 when statistics relating to mortality from this cause were first circulated to Medical Officers of

Health by the Registrar-General. Deaths from coronary disease and from vascular lesions of the nervous system have also increased by a significant extent. Deaths from tuberculosis and nephritis have fallen quite dramatically in the same period.

The most significant trend undoubtedly relates to deaths in later middle life, *i.e.* between the ages of 45 and 64. The proportion of deaths of males in this age group to females again rose, and in 1956, for every 3 deaths among females between these ages there were 5 of males. The two principal single factors accounting for this difference were, as in previous years, coronary thrombosis, from which cause there were 447 deaths of males as against 111 of females within the age group, and cancer of the lungs and bronchi, where the figures were 158 and 23 respectively. The percentage of deaths between 45 and 64 where the certified cause was coronary disease or angina pectoris was 22.4%, the highest yet recorded.

New child welfare centres were opened at Crewe (Minshull New Road), High Legh and Wrenbury. Sales of welfare foods continued in child welfare centres, voluntary sales centres and in premises specially occupied for the purpose, the number of sales of the various items showed a very slight increase over the 1955 figures. With a view to securing co-ordination in the work performed at the several child welfare centres and in particular to stress the preventive side of mental health work amongst parents and their young children, an additional appointment of a Senior Assistant Medical Officer was made. The establishment of Health Visitors has recently been increased by 9 in order that more time may be spent in the visitation of difficult families and persons requiring after-care.

The problem of the early recognition of deafness has received much attention. Some Medical Officers and Health Visitors have already attended the Manchester University Department for Teachers of the Deaf, for instruction in this subject and a series of short courses has been arranged by which means a sufficient proportion of the Health Department's staff will become proficient in recognising deafness at an early age.

The work of the "Cerebral Palsy Team" commenced in April, 1956. The team consists of a Physiotherapist and Occupational Therapist, working under the direct supervision of a Consultant Paediatrician, the services of a speech therapist, and a medical officer with special experience in estimating the mental capabilities of physically handicapped children are available to the team. Sessions are conducted at the Macclesfield, Cheadle, Crewe and Weaverham clinic centres; the patients are first assessed by the paediatrician to establish the diagnosis and to determine suitability for treatment. The essence of the scheme is early diagnosis and health visitors have been instructed in the means of early recognition of cerebral palsy. The results of the team's work have been encouraging and inevitably the question arises as to the

extension of the work to other parts of the county. This will, however, involve recruitment and special training of additional personnel; at the present time new cases are still being taken for treatment whilst those children already found suitable for treatment are necessarily still continuing their attendances, the optimum population with which the team can cope efficiently has therefore not yet been determined.

Study courses for health visitors have taken place, the subjects being the care of difficult families and prevention of home accidents.

The amount of dental work performed by the Schools Dental Staff on behalf of expectant and nursing mothers showed an increase over the previous year.

The Ante-natal Centres were again well attended and additional midwives' clinics were set up at Bredbury, Poynton, Stockton Heath and Cheadle. There are now 23 "preparation classes" for expectant mothers meeting regularly, each conducted by health visitors and a physiotherapist, at which education for motherhood is given and "relaxation exercises" performed. The high level of co-operation between the Local Health Authority and the Regional Hospital Boards as regards ante-natal care has continued. At the series of conferences between consultant obstetricians, general practitioners and officers of the Local Health Authority it was obvious that there was a strong desire to increase co-operation between the three separate columns of the National Health Service.

The number of domiciliary confinements attended by County Nursing Staff increased during the year; the number of confinements taking place in nursing homes continued to fall.

As a result of the Committee's policy of using dual purpose vehicles for routine journeys and where stretcher gear is not required, the number of patients carried, and miles travelled by sitting-cage cars and vehicles exceeded those in respect of ambulances. For the first time since 1948, there was a slight reduction in the number of patients carried by the ambulance service. The Congleton service became directly provided during 1956, the Altrincham and Sale services achieved a substantial extent of fusion, and the Cheadle Station has now men on duty throughout the twenty four hours of each day. Co-operation with the County Fire Brigade for the night manning of telephones has continued.

There has been a noticeable reduction in the number of trainees received at Wrenbury Hall for industrial rehabilitation after hospital treatment for tuberculosis. It is impossible to assign a reason for this trend other than the greatly improved results of modern medical and surgical methods of treating pulmonary tuberculosis and the nation wide reduction in the occupation of hospital beds by tuberculous patients. Dr. Peter Edwards who had been Medical Superintendent of Wrenbury Hall since its inception retired towards the end of 1956 after many years of original and devoted work on behalf of tuberculous

patients. He insisted that a doctor's role in the management of a person suffering from pulmonary tuberculosis was incomplete until that patient had achieved full industrial rehabilitation and was living a normal life with all its responsibilities, and with his personality and knowledge he achieved a world-wide reputation. His work at Wrenbury is being continued by Dr. Fleming, the consultant chest physician for the South Cheshire area.

It is pleasing to report that a larger proportion of mentally ill persons were admitted voluntarily to Deva and Winwick hospitals than in previous years. Additional out-patient clinics were set up by the Manchester Regional Hospital Board at Crewe and Northwich. There is a difference between the respective policies of the Manchester and Liverpool Hospital Boards in that the former use their out-patient clinics for therapy and not only for investigation. This has an effect on the services of the Local Health Authority by adding to the work of the Ambulance Service and the Duly Authorised Officers.

The extension of the Occupation Centres to provide for nursing groups and adults is receiving the consideration of the Committee. In this connection the claims of mentally handicapped children suffering from cerebral palsy are not being overlooked. A new occupation centre has now been opened at Nantwich and it is considered that, so far as defectives of school age are concerned, the county is adequately covered, although there are still mentally defective children living in rural areas for whom the cost of transport to and from occupation centres would be prohibitive.

There was a further increase in the use made of the Domestic Help service, particularly on behalf of chronic patients and aged persons. It is noteworthy that not more than 8% of domiciliary confinement cases received the services of a domestic help. The appointment of a supervisor of domestic helps in the North East division was entirely successful, and these appointments could with advantage be made in other parts of the County.

Attention is drawn to the work done in the supervision of establishments for the pasteurisation and sterilisation of milk where it is shown that only 0.6% of milk samples were found by the phosphatase test to be unsatisfactory. Only one of these unsatisfactory samples was from a firm using the H.T.S.T. machines. In this connection I have to report the retirement of Mr. F. Humphries, the first County Health Inspector to be employed in Cheshire, who gave loyal, patient and devoted service for 30 years.

I have to report, with the utmost regret, the deaths during the past twelve months, of the County Principal Dental Surgeon (Mr. R. H. Parry) and two other County Dental Surgeons (Mr. Griffin and Mr. Littleton), all of these men who had devoted their working lives to preventive work in dental surgery, leave behind them memories of pleasant personality, friendliness and whole-hearted endeavour.

Much of the work of the County Health Department, particularly in the Child Welfare and Welfare Foods Sales Centres would not be possible without the voluntary services, willingly given, of some hundreds of women. I acknowledge most gratefully their valuable services.

The periodic meetings of Divisional Medical Officers have continued and, as before, have been found of the greatest value in allowing new projects, ideas and difficulties to be discussed.

The Department moved into the new County Hall at the end of May, 1957. The change has undoubtedly increased efficiency and made for much easier communication with other departments.

I wish to thank the Chairman and members of the County Health Committee and of the Divisional Health Committees for their support and help throughout the year. My sincere thanks are also due to the Clerk of the County Council and other Heads of Departments and their Deputies for their very willing co-operation and assistance at all times, and I acknowledge with deep gratitude the loyalty and friendship invariably shown to me by the Staff of the Health Department throughout the County.

I beg to remain,

Your obedient servant,

ARNOLD BROWN

27th October, 1957.

Staff of the Public Health Department

County Medical Officer of Health and Principal School Medical Officer	Arnold Brown, M.B., Ch.B., D.P.H.
Deputy County Medical Officer of Health	B. G. Gretton-Watson, M.A., M.B., B.Ch., D.P.H., Barrister-at-Law.
Senior Medical Officer for Maternity and Child Welfare	B. M. Butters, M.A., M.B., Ch. B., D.P.H.
Senior School Medical Officer	H. Craig, L.R.C.P. & S., L.R.F.P.S.
Senior Assistant Medical Officer	N. M. E. Robertshaw, B.Sc., M.B., Ch.B., D.R.C.O.G., D.C.H.
Assistant County Medical Officers	R. A. Blyth, M.B., Ch.B., M.R.C.S., L.R.C.P.
	P. V. Cant, M.B., Ch.B.
	R. Cargill, M.B., Ch.B.
	Margaret Caton, M.R.C.S., L.R.C.P.
	R. J. Clark, M.B., Ch.B., D.P.H.
	Jenny Craig, M.B., Ch.B., D.P.H.
	Aitolia English, M.R.C.S., L.R.C.P., M.B., B.S., D.C.H.
	Barbara Jones, M.B., Ch.B.
	Christina Laing, M.B., Ch.B., D.P.H.
	Elizabeth Perkins, M.B., B.Ch.
	Alta Ravenscroft, M.B., Ch.B.
	Jessie Tough, M.B., Ch.B., D.P.H.
	Gladys Wilkinson, M.R.C.S., L.R.C.P.
Divisional Medical Officers	
<i>Altrincham</i>	D. Longbottom, M.B., Ch.B., D.P.H.
<i>Bebington</i>	F. S. Melville, M.B., Ch.B., D.P.H.
<i>Cheadle and Wilmslow</i>	D. G. Anderson, M.B., Ch.B., D.P.H.
<i>Crewe</i>	D. G. Crawshaw, M.B., M.R.C.S., D.C.H., D.P.H.
<i>Deeside</i>	J. Hatton, M.D., D.P.H.
<i>Hyde</i>	F. W. C. Brown, M.D., D.P.H.
<i>Macclesfield</i>	H. R. Dugdale, M.B., Ch.B., D.P.H.
<i>Mid-Cheshire</i>	W. S. Slater, M.B., M.R.C.S., D.P.H.
<i>Nantwich</i>	R. K. Hay, M.D., B.Ch., B.A.O., D.P.H.
<i>N. E. Cheshire</i>	T. W. Brindle, M.B., Ch.B., D.P.H.
<i>Runcorn</i>	E. N. H. Gray, L.R.C.P. & S., L.M., D.P.H.
<i>Sale and Lymm</i>	E. H. Gordon, M.D., B.Ch., B.A.O., D.P.H.
<i>S. E. Cheshire</i>	L. Rich, M.B., Ch.B., M.R.C.O.G., D.P.H.
<i>S. W. Cheshire</i>	W. J. Birchall, M.B., M.R.C.S., L.R.C.P., D.P.H.
<i>Stalybridge and Dukinfield</i>	T. Holme, M.B., Ch.B., D.P.H.
County Analyst	J. G. Sherratt, F.R.I.C.
Dental Surgeons	A. F. Hely, C.B., L.D.S. (Principal). Edith Andrew, L.D.S.

Dental Surgeons	J. B. Andrew, B.D.S., R.C.S. E. Bradley, L.D.S. R. G. Clague, L.D.S. Dorothy Coates L.D.S. G. H. Craine, B.D.S. D. M. Dodd, L.D.S. Margaret Eirew, L.D.S., R.C.S. E. C. Griffin, L.D.S. H. S. Holland, B.D.S., L.D.S. J. P. Hughes, L.D.S. Jacqueline Hurst, L.D.S. R. H. Hurst, L.D.S. H. Jackson, L.D.S. Lisbeth Kippen, L.D.S., D.P.D. A. N. Leicester, B.D.S. Muriel Manwood, L.D.S. (pt.-time). H. P. Meed, L.D.S. J. S. O'Brien, L.D.S. Ruth Owen, L.D.S. E. S. Poulter L.D.S. J. A. Reece, L.D.S. H. W. S. Sheasby, L.D.S. E. J. Taylor, L.D.S. Dorothy Walker, L.D.S.
Ophthalmic Surgeons (Part-time)	B. Boas, M.D. P. J. Devlin, M.B., Ch.B., D.O.M.S. A. Holmes-Smith, M.A., M.B., B.Chir., D.O.M.S. C. Jacobs, M.D., M.B., B.S. E. Riley, M.B., Ch.B., D.O.M.S. L. R. C. Rose, L.M.S.S.A., D.O. Dorothy Simmons, M.B., Ch.B.
Orthopaedic Surgeons (Part-time)	T. Jackson, M.R.C.S., L.R.C.P. E. M. Kupfer, M.B., B.S., F.R.C.S. J. L. Mangan, F.R.C.S.I. K. Marks, M.Ch., F.R.C.S. T. McSweeney, M.B., M.Ch., F.R.C.S. A. G. O'Malley, M.Ch., F.R.C.S. G. T. Partridge, M.A., M.B., F.R.C.S. R. Roaf, M.A., F.R.C.S. G. A. Wetherell, M.B., M.Ch., F.R.C.S.
Paediatrician (Part-time)	J. D. Allan, M.D., F.R.C.P.
Ear, Nose and Throat Surgeons (Part-time)	E. M. Innes, F.R.C.S., D.L.O. G. A. Moulden, M.B., Ch.B., D.L.O.
Chest Physicians (Part-time)	J. Black, M.D., F.R.F.P.S., M.R.C.P. D. L. Caldwell, M.A., M.R.C.P. A. Fleming, M.B., Ch.B., D.P.H. A. C. C. Hughes, M.A., M.D., M.R.C.P. E. Ratner, M.D., Ch.B., D.P.H. E. R. Smith, M.D., Ch.B., D.P.H. D. W. C. Tough M.B., Ch.B., D.P.H.
Chief Administrative Assistant	B. O'Connor, M.A., Barrister-at-Law.
County Sanitary Officer	W. Penbleton
Supt. Authorised Officer	J. Danby.
Superintendent of Home Nursing	Miss I. N. Vaughan.
Non-Medical Supervisor of Midwives	Miss M. A. Reynolds.
Assistant Superintendent of Home Nursing	Miss E. Johnson.

HEALTH VISITORS & SCHOOL NURSES (115)

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 1a. Miss J. Briscoe, Broomfield, Meols Drive, Hoylake (Tel. Hoylake 2322)	Hoylake U.D. (Meols & Hoose Wards)	Welfare Centre, Broomfield, Meols Drive, Thurs. p.m. Hoylake, M.A. Clinic, Broomfield, Meols Drive, Fri. a.m. Hoylake Ante-Natal Clinic, Broomfield, Meols Drive Tues. a.m. Hoylake Paediatric Clinic, Broomfield, Meols Drive, Mon. p.m. Hoylake, Ante-Natal Booking Clinic, Broomfield, Meols Drive, Hoylake 2th & 4th Fri. p.m.
DISTRICT No. 1b. Miss W. Lacy, 3, Glebe Road, Wallasey	Hoylake U.D. (Central, Park & South Wards)	Welfare Centre, Parish Hall, West Kirby Fri. p.m. Ante-Natal Clinic, Broomfield, Meols Drive, Alt. Tues. a.m. Hoylake Welfare Centre, Broomfield, Meols Drive, Thurs. p.m. Hoylake Welfare Centre, Parish Hall, West Kirby Fri. p.m. Ante-Natal Clinic, Broomfield, Meols Drive, Tues. a.m. Hoylake
DISTRICT No. 1c. Mrs. D. Christian, 87, Palm Grove, Oxton, Birkenhead (Tel. Birk. 4702)	Hoylake U.D. (Grange Ward, Caldý & Frankby Ward Pt. ii—Caldý)	Welfare Centre, Methodist Church Hall, Tues. p.m. Greasby Ante-Natal Clinic, Mellock Lane, Neston Mon. a.m. Ante-Natal Clinic, Broomfield, Meols Drive, Alt. Tues. a.m. Hoylake Eye Clinic, Broomfield, Meols Drive, 1st, 3rd & 5th Fri., p.m. Hoylake
DISTRICT No. 1d. Miss D. Maybury, 12, Far Meadow Lane, Irby, Heswall, Wirral (Tel. Irby 2564)	Hoylake U.D. (Greasby Ward, Caldý & Frankby Ward Pt. i—Frankby)	Welfare Centre, Methodist Church Hall, Tues. p.m. Greasby Ante-Natal Clinic, Mellock Lane, Neston Mon. a.m. Ante-Natal Clinic, Broomfield, Meols Drive, Alt. Tues. a.m. Hoylake Eye Clinic, Broomfield, Meols Drive, 1st, 3rd & 5th Fri., p.m. Hoylake
DISTRICT No. 2a. Mrs. V. R. Blades,† 17, Leighton Road, Tranmere, Birkenhead (Tel. Birk. 1839)		Welfare Centre, Victoria Hall, Hr. Bebington Tues. p.m. (Tel. Mountwood 1527) Welfare Centre, New Ferry Park, Wed. p.m. (Tel. R. F. 1143) Toddlers' Centre, New Ferry Park 2nd Thurs. p.m. Welfare Centre, Mayer Hall, Bebington Fri. p.m. (Tel. R. F. 1440) Ante- and Post Natal Clinic, New Ferry Park Mon. & Fri. a.m. Welfare Centre, Victoria Hall, Hr. Bebington Tues. p.m. M.A. Clinic, St. Mark's Parish Room, New Mon., Wed. Fri. p.m. Ferry (Tel. R.F. 1213) Ante- & Post Natal Clinic, New Ferry Park Mon. a.m. Welfare Centre, Women's Institute, Thornton 1st and 3rd Fri. p.m. Hough Eye Clinic, St. Mark's Parish Room, New Fri. a.m. Ferry Ante- & Post Natal Clinic, New Ferry Park Mon. a.m. Welfare Centre, Mayer Hall, Bebington Fri. p.m.
Miss B. Shepherd, 13, Probyn Road, Wallasey (Tel. Wallasey 1060)	Bebington M.B. (Hr. Bebington Ward)	
Mrs. E. Symes, Flat 7, Windy Knowe, Waterford Road, Oxton, Birkenhead (Tel Birk. 1706)	Bebington M.B. (Poulton Ward)	
Miss E. Nicholson,† Rock Mount, 37, Mill Road, Hr. Bebington (Tel. Mountwood 1949)	Bebington M.B. (Bebington & Sunlight Wards)	
Miss E. M. Wright,* 705, Borough Road Birkenhead	Bebington M.B. (Eastham Ward pt. ii)	Welfare Centre, Plymyard Eastham Mon. p.m. (Tel. Eastham 1336) Eye Clinic, St. Mark's Parish Room, New Fri. a.m. Ferry Toddlers' Centre, Plymyard, Eastham 3rd Fri. p.m. Ante- & Post Natal Clinic, New Ferry Park Fri. a.m. Welfare Centre, Council Offices, Bromborough Thurs. p.m. (Tel. Brom. 2102) M.A. Clinic, Council Offices, Bromborough 1st Tues. a.m. Ante & Post Natal Clinic, New Ferry Park Mon. & Fri. a.m. Welfare Centre, New Ferry Park Wed. p.m.
Miss R E. Abraham, 3, Rock Park, Rock Ferry (Tel. R.F. 728)	Bebington M.B. (N. & S. Bromborough Wards)	
Mrs. M. G. Garratt, 15, Wyedale Whitby, Ellesmere Port	Bebington M.B. (Park & New Ferry Wards)	

	CIVIL PARISHES	CENTRES & CLINICS
District No. 2a—(cont.) Mrs. M. F. Cordon* 8, Westbrook Road, Saughall Massie, Wirral	Bebington M.B. (Eastham pt. I and Woodhey Wards)	Welfare Centre, Plymyard, Eastham <i>Mon. p.m.</i> Welfare Centre, Council Offices, Bromborough <i>Thurs. p.m.</i> Ante & Post Natal Clinic, New Ferry Park <i>Fri. a.m.</i> Eye Clinic, New Ferry Park <i>3rd Sat. o.m.</i> Paediatric Clinic, New Ferry Park <i>1st and 3rd Tues. o.m.</i>
*These Health Visitors also attend on rota the clinic listed opposite. † do. do.		
DISTRICT No. 2b. Miss E. L. Roberts, 23, Penmon Drive, Heswall, Wirral	Capenhurst Ledsham Neston U.D. (Burton & Ness, Little Neston & Willaston Wards)	Welfare Centre, Mellock Lane, Neston <i>Thurs. p.m.</i> (Tel. Neston 2189) Preparation Class, Mellock Lane, Neston <i>2nd and 4th Fri. p.m.</i> Eye Clinic, Mellock Lane, Neston <i>1st Wed. o.m.</i> Ante-Natal Clinic, Mellock Lane, Neston <i>Mon. o.m.</i> Welfare Centre, Red Cross Depot, Willaston <i>1st & 3rd Fri. o.m.</i> Ante-Natal Clinic, Mellock Lane, Neston <i>Mon. o.m.</i> Paediatric Clinic, Mellock Lane, Neston <i>2nd & 4th Fri. p.m.</i> M.A. Clinic, Mellock Lane, Neston <i>Tues. o.m.</i> Welfare Centre, Mellock Lane, Neston <i>Thurs. p.m.</i> Preparation Class, Mellock Lane, Neston <i>1st, 3rd & 5th Fri. p.m.</i>
Miss P. M. Gant, 14, Waterford Drive, Little Neston, Cheshire	Neston U.D. (Leighton & Parkgate, Neston East & West Wards)	
DISTRICT No. 2c. Mrs. E. G. Sinden, Gayton Grange (Flat 2), Well Lane, Gayton, Wirral (Tel. Heswall 2706)	Irby Pensby Thurstaston	Welfare Centre, Methodist Hall, Mill Hill <i>Wed. p.m.</i> Road, Irby Ante-Natal Clinic, Telegraph Rd., Heswall <i>Thurs. o.m.</i> Welfare Centre, Telegraph Rd., Heswall <i>Mon. p.m.</i> Preparation Class, Telegraph Rd., Heswall <i>Alt. Thurs. p.m.</i>
DISTRICT No. 2d. Miss M. Okill, 79, Irby Road, Heswall, Wirral.	Barnston Gayton Heswall-cum-Oldfield	Welfare Centre, Telegraph Rd., Heswall <i>Mon. p.m.</i> (Tel. Heswall 3551) M.A. Clinic, Telegraph Rd., Heswall <i>Tues. p.m.</i> Eye Clinic, Telegraph Rd., Heswall <i>2nd & 4th Fri. p.m.</i> Ante-Natal Clinic, Telegraph Rd., Heswall <i>Thurs. o.m.</i> Preparation Class, Telegraph Road, Heswall <i>Alt. Thurs. p.m.</i> Paediatric Clinic, Telegraph Rd., Heswall <i>Alt. Tues. o.m.</i>
DISTRICT No. 3a. Miss C. G. McKee, 12, Thamesdale, Ellesmere Port (Tel. E. P. 2542)	Ellesmere Port M.B. (Westminster Ward)	Welfare Centre, York Road, Ellesmere Port <i>Fri. p.m.</i> (Tel. E. Port 328) Ante-Natal Clinic, York Road, Ellesmere Port <i>Wed. p.m. and Fri. o.m.</i> Ante-Natal Clinic, Chester Road, Little <i>Mon. o.m.</i> Sutton M.A. Clinic, York Road, Ellesmere Port <i>Mon. & Thurs. o.m.</i> Ante-Natal Clinic, York Road, Ellesmere Port <i>Wed. p.m.</i> Welfare Centre, York Road, Ellesmere Port <i>Tues. p.m.</i> Welfare Centre, York Road, Ellesmere Port <i>Fri. p.m.</i> E.N.T. Clinic, York Road, Ellesmere Port <i>Alt. Mon. o.m.</i> Welfare Centre, Overpool <i>1st & 3rd Thurs. p.m.</i> Ante-Natal Clinic, Chester Road, Little <i>Alt. Mon. a.m.</i> Sutton Welfare Centre, York Road, Ellesmere Port <i>Tues. p.m.</i> Ante-Natal Clinic, York Road, Ellesmere Port <i>Wed. p.m. and Fri. o.m.</i> Ante-Natal Clinic, Chester Road, Little <i>Mon. o.m.</i> Sutton Welfare Centre, Village Hall, Ince <i>2nd & 4th Thurs. p.m.</i>
Miss R. E. Ruark, 187, Raeburn Avenue, Eastham	Ellesmere Port M.B. (Victoria & Grange BA Wards)	
Miss G. M. Thorburn, Flat 2, 35, Liverpool Road, Chester	Ellesmere Port M.B. (Central AB, Grange BB & Whitby Ward)	
Miss M. L. Bate, Waterdale, 86, Chester Road, Ellesmere Port (Tel. E. P. 9)	Ellesmere Port M.B. (Stanlow & Central AA Wards)	

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 3a contd.		
Mrs. D. Dromgoole, 22, Raymond Street, Chester		
Miss J. F. Fawcett, 52, Princes Boulevard, Bebington (Tel. Rock Ferry 4544)	Ellesmere Port M.B. (Sutton Ward)	Welfare Centre, Chester Road, Little Sutton <i>Mon. p.m.</i> (Tel. Hooton 3297) M.A. Clinic, Chester Road, Little Sutton <i>Fri. a.m.</i> Midwives' Clinic, Chester Road, Little Sutton <i>Thurs. p.m.</i> Ante-Natal Clinic, Chester Road, Little Sutton <i>Mon. a.m.</i> Welfare Centre, Community Centre, Overpool <i>1st & 3rd Thurs. p.m.</i> Eye Clinic, York Road, Ellesmere Port <i>Fri., a.m.</i> Ante-Natal Clinic, York Road, Ellesmere Port <i>Wed., p.m.</i> Ante-Natal Clinic, Chester Road, Little Sutton <i>Alt. Mon. a.m.</i>
Miss K. E. Cawthorn, 19, Kirket Lane, Bebington	Ellesmere Port M.B. (Pool Ward)	
DISTRICT No. 3b,		
Miss D. Toft, Golf House, The Oaks, Upton, Chester (Tel. Chester 23638)	Aldford Buer-ton Chester Castle Christleton Chur-ton Heath Claverton Dodd-leston Eaton Far-leston Golborne Bellow Golborne David	Handley Huntington Kinnerton Lea Newbold Marlston Newton-by-T'ham Poulton Pulford Rowton Saigh-ton Tattenhall
		Welfare Centre, Barbour Institute, Tattenhall <i>1st & 3rd Mon. p.m.</i> Welfare Centre, Village Hall, Huntington <i>2nd & 4th Wed. p.m.</i> M.A. Clinic, Barbour Institute, Tattenhall <i>Wed. a.m.</i> Wives' Club Clinic, Saigh-ton Camp <i>1st Wed. p.m.</i>
DISTRICT No. 4a		
Miss B. Jackson, 30, Acres Lane, Upton, Chester	Barrow Bridge Trafford Dunham-on-the-Hill Elton Great Boughton Guilden Sutton Hapsford Hoole Village	Littleton Little Stanney Mickle Trafford Pic-ton Stoke Thornton-le-Moors Wimbolds Trafford
		M.A. Clinic, 55, Hoole Road, Chester <i>2nd Wed. p.m.</i> (Tel. Chester 22299) Eye Clinic, 55, Hoole Road, Chester <i>1st Fri. p.m.</i> Welfare Centre, Village Hall, Barrow <i>1st & 3rd Wed. p.m.</i>
DISTRICT No. 4b.		
Miss M. G. E. Crawford, "Wirswall," 12, Newton Park View, Newton, Chester (Tel. Chester 24420)	Bache Backford Caughall Chorlton-by-Backford Croughton	Lea-by-Backford Mollington Moston Saughall Shotwick Park Upton Wervin
		Welfare Centre, Village Hall, Upton <i>Thurs. p.m.</i> Welfare Centre, Vernon Institute, Saughall <i>1st, 3rd & 5th Mon. p.m.</i>
DISTRICT No. 5		
Miss M. Gourlay, Castle View, Clotton Lane, Huxley, Chester	Ashton Beeston Bruen Stapleford Burton-by-Tarvin Clotton Hoo-field Cotton Abbotts Cotton Edmunds Delamere Duddon Eaton Foulk Stapleford Hatton Hockenhull Horton-cum-Peel	Huxley Iddinshall Kelsall Mouldsworth Pryor's Heys Rushton Tarporley Tarvin Tilstone Fearnall Tiverton Utkinton Waverton Willington
		Welfare Centre, Victory Hall, Tarporley. <i>2nd & 4th Thurs. p.m.</i> Welfare Centre, Parish Hall, Kelsall <i>1st & 3rd Tues. p.m.</i> M.A. Clinic, Victory Hall Tarporley. <i>Fri. a.m.</i> Welfare Centre, Radcliffe's Hut, Tarvin <i>2nd & 4th Wed. p.m.</i> Eye Clinic, Victory Hall, Tarporley <i>4th Fri. p.m.</i>

	CIVIL PARISHES		CENTRES & CLINICS	
DISTRICT No. 6 Miss W. Jones, Lyle Villas, Caergwile, Nr. Wrexham	Agden Aldersey Barton Bickerton Bickley Bradley Broxton Burwardsley Caldecott Carden Chidlow Chorlton Chowley Church Shocklach Churton-by-Al'fd Ch'rtton-by-F'don Clutton Coddington	Crewe Cuddington Duckington Edge Edgerley Egerton Farndon Grafton Hampton Harthill Horton Kings Marsh Larkton Maccfen Malpas Newton-by- Malpas Oldcastle	Welfare Centre, Parish Hall, Malpas <i>1st & 3rd Mon. p.m.</i> M.A. Clinic, Jubilee Hall, Malpas <i>Thurs. p.m.</i> Welfare Centre, Memorial Hall, Farndon <i>Alt. Thurs. p.m.</i>	
DISTRICT No. 7a. Miss H. K. Coventry, 11, Weston Crescent, Runcorn (Tel. Runcorn 2023) Mrs. E. Briers, 17, Cornwall Avenue, Runcorn Miss A. Davies, 3, Cornwall Street, Runcorn Mrs. J. Delaney, 8, Boston Avenue, Runcorn	Runcorn U.D. (Halton & Grange Wards) Runcorn U.D. (Weston Ward) Runcorn U.D. (Heath and Victoria Wards) Runcorn U.D., (Bridgewater & Mersey Wards)		Welfare Centre, 34, Halton Road, Runcorn (Tel. Runcorn 2449) <i>Wed. p.m. & 1st Thurs. p.m.</i> M.A. Clinic, 28, Halton Road, Runcorn <i>Mon. & Fri. a.m.</i> (Tel. Runcorn 3621) Welfare Centre, 34, Halton Road, Runcorn <i>Wed. p.m.</i> Welfare Centre, Conservative Hall, Weston <i>1st & 3rd Thurs. p.m.</i> Point Welfare Centre, 34, Halton Road, Runcorn <i>Wed. a.m.</i> Ante-Natal Clinic, 34 Halton Road, Runcorn <i>Thurs. a.m.</i> Paediatric Clinic, Memorial Hospital, Runcorn <i>Wed. p.m.</i> Welfare Centre, 34 Halton Road, Runcorn <i>Wed. a.m.</i> Ante- & Post-Natal Clinic, 34, Halton Road, <i>Thurs. a.m.</i> Runcorn Eye Clinic, 28, Halton Road, Runcorn <i>Tues. p.m.</i>	
DISTRICT No. 7b. Miss S. E. Robinson, 11, Weston Crescent, Runcorn (Tel. Runcorn 2023)	Aston Daresbury Dutton Halton Hatton Kingsley Moore	Norley Norton Preston Brook Sutton Walton Whitley	Welfare Centre, Hurst Church Hall, Kingsley <i>2nd & 4th Wed. p.m.</i>	
DISTRICT No. 8. Miss R. Potter, 262, Padgate Lane, Padgate, Warrington	Alvanley Frodsham Helsby	Manley	Welfare Centre, The Rock, Frodsham <i>Alt. Tues. p.m.</i> (Tel. Frodsham 2388) Eye Clinic, The Rock, Frodsham <i>4th Thurs. a.m. and 2nd Fri. a.m.</i> Welfare Centre, Cable Works, Helsby <i>Alt. Tues. p.m.</i>	
DISTRICT No. 9a Miss J. L. Hill Darland House, Winnington Hill, Northwich (Tel. Northwich 4643)	Acton Anderton Barnton Comberbach Crowton	Great Budworth Little Leigh Marbury	M.A. Clinic, Methodist Church, Barnton <i>Wed. a.m.</i> Welfare Centre, Meth. Church, Barnton <i>2nd & 4th Wed. p.m.</i> Welfare Centre Parish Hall, Comberbach <i>1st & 3rd Wed. p.m.</i> Welfare Centre, 23, Church Lane, <i>Tues. p.m.</i> Weaverham	
DISTRICT No. 9b. Mrs. J. Bleazard, Cartref, West Road, Weaverham, Northwich (Tel. Weaverham 2330)	Weaverham		Welfare Centre, 23, Church Lane, Weaverham <i>Tues. p.m.</i> (Tel. Weav. 3177) M.A. Clinic, 23, Church Lane, Weaverham <i>Fri. a.m.</i> Eye Clinic, 23, Church Lane, Weaverham <i>3rd Fri. p.m.</i>	

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 10. Miss D. Parkinson, 131, Walnut Avenue, Weaverham, Northwich	Allostock Aston-by-Bud'th Bexton, Goostrey Marston Mere Nether Peover	Peover Inferior Pickmcre Plumley Tabley Inferior Tabley Superior Wincham
Miss H. M. Dawson, Bollin Grove, Prestbury, Macclesfield	Knutsford U.D. Ollerton Peover Superior Toft	Welfare Centre, The Institute, Lower Peover 2nd & 4th Mon. p.m. Eye Clinic, Parkfield, Northwich 1st, 2nd & 3rd Thurs. a.m. Welfare Centre, Social Club, Goostrey 1st & 3rd Tues. p.m. Welfare Centre, Village Hall, Plumley 1st & 3rd Thurs. p.m. Welfare Centre, County Offices, Bexton Rd., Wed. p.m. Knutsford (Tel. Knutsford 273) M.A. Clinic, County Offices, Bexton Road, Wed. a.m. Knutsford Eye Clinic, County Offices, Bexton Rd., 3rd. Thurs. p.m. Knutsford Welfare Centre, Parish Room, Over Peover 1st & 3rd Mon. p.m. Immunisation & Vaccination Clinic, Bexton Last Thurs. a.m. Road, Knutsford
DISTRICT No 11. Miss A. McDonald, 131, Walnut Avenue, Weaverham, Northwich.	Northwich U.D. (Witton and Northwich BA Wards)	Welfare Centre, Darland House, Northwich Tues. p.m. (Tel. Northwich 4643) Welfare Centre, Parkfield, Northwich Thurs. p.m. (Tel. Northwich 2186) Paediatric Clinic, Darland House, Northwich 4th Mon. p.m.
Miss M. E. Duffield, 2, Dyar Terrace, Winnington, Northwich (Northwich 4529)	Northwich U.D. (Castle and Winnington Wards)	M.A. Clinic, Darland House, Northwich Tues. a.m. and Fri. p.m. Ante-Natal Clinic, Parkfield, Northwich Mon. p.m. Welfare Centre, Darland House, Northwich Tues. p.m. M.A. Clinic, Darland House, Northwich 2nd Fri. p.m.
DISTRICT No. 12a, Mrs. M. T. H. Twigg, 7, St. Leonards Drive, Timperley, Altrincham (Tel. Altrincham 5229)	Lach Dennis Lostock Gralam Rudheath Wharcroft	M.A. Clinic, Parkfield, Northwich Mon., Wed., Fri. & 1st Thurs. a.m. Welfare Centre, Parkfield, Northwich Thurs. p.m. Ante-Natal Clinic, Parkfield, Northwich Mon. p.m.
DISTRICT No. 12b. Miss P. Holt, Ivy House, Dunham Town, Altrincham (Tel. Altrincham 2505)	Cuddington Hartford	Welfare Centre, Community Centre, Delamere Park, Cuddington 1st. & 3rd. Wed. p.m. E.N.T. Clinic, Parkfield, Northwich 2nd. Fri. a.m. Welfare Centre, Meth. Chapel, Hartford 2nd & 4th Tues. p.m. Ante-Natal Clinic, Parkfield, Northwich Mon. p.m. Welfare Centre, Church Hall, Sandiway 1st & 3rd Tues. p.m.
DISTRICT No. 13a Mrs. M. Brown Tudor Cottage, Onston Lane, Cuddington, Northwich	Winsford U.D. (Valc Royal & Wharton Wards) Darnhall Marton Little Budworth Moulton Oakmere	Welfare Centre, 98, Weaver Street, Winsford Fri. & 1st Thurs. p.m. (Tel. Winsford 2387) Welfare Centre, Church Hall, Moulton 3rd Wed. p.m. Eye Clinic, 98, Weaver Street, Winsford 1st, 3rd, & 5th Thurs. a.m.
DISTRICT No. 13b. Miss J. M. Gassick, 471, Chester Road, Hartford, Nr. Northwich (Tel. Sandiway 2040)	Winsford U.D. (Gravel, Over & Swanlow Wards)	Welfare Centre, 98, Weaver Street, Winsford Fri. & 1st Thurs. p.m. M.A. Clinic, 98, Weaver Street, Winsford Mon. p.m. E.N.T. Clinic, 98, Weaver Street, Winsford 2nd Wed. p.m.
DISTRICT No. 14a.	Middlewich U.D. Byley Church Hulme Crangage	Sproston Welfare Centre, 85, Wheelock Street, Middle- Mon. p.m. wich M.A. Clinic, 85, Wheelock Street, Middlewich Mon. a.m. (Tel. Middlewich 165) Eye Clinic, 85, Wheelock Street, Middlewich 3rd Tues. p.m. E.N.T. Clinic, 85, Wheelock Street, Middle- Even months 4th Thurs. a.m. wich Welfare Centre, Mothers' Union Hut, 2nd & 4th Tues. p.m. Holmes Chapel

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 14b, Miss A. Gratrix, 85, Wheelock Street, Middlewich	Northwich U.D. (Northwich BB Ward) Bostock Stanthorne Davenham Tetton Wimboldsley	Welfare Centre, Methodist Church, 1st Mon. p.m. Davenham Welfare Centre, Farm of the Good Shepherd, Leftwich Estate 2nd and 4th Tues. p.m.
DISTRICT No. 15. Miss E. M. Scott, 151, Welsh Row, Nantwich	Nantwich U.D. (Barony, Wellington and Willaston Wards) Alraham Leighton Aston-juxta Minshull Vernon Mondrum Poole Calveley Wardle Cholmondeston Warmingham Church Minshull Wettenhall Henhull Woolstanwood Worleston	Welfare Centre, The Dowery, Nantwich Thurs. p.m. (Tel. Nantwich 5360) M.A. Clinic, The Dowery, Nantwich Wed. a.m. Eye Clinic, The Dowery, Nantwich 2nd & 4th Thurs. a.m. & 3rd Fri. p.m. Preparation Class, The Dowery, Nantwich Mon. p.m.
DISTRICT No. 16a Mrs. F. G. Kirkham, St. Bees, Marsh Lane, Nantwich	Nantwich U.D. (Weaver Ward) Acton Faddiley Austerson Haughton Baddiley Hurlston Baddington Marbury Batherton Norbury Brindley Peckforton Broomhall Ridley Bulkeley Sound Bunbury Spurstow Burland Stapeley Cholmondeley Stoke Chorley Wirswall Coole Pilate Woodcott Edleston Wrenbury	Welfare Centre, The Dowery, Nantwich Thurs. p.m. Welfare Centre, Parish Hall, Wrenbury, 2nd & 4th Wed. p.m. Welfare Centre, Oddfellows Hall, Bunbury 1st and 3rd Fri. p.m.
DISTRICT No. 16b. Miss D. Griffiths, East View, Little Heath, Audlem	Audlem Hankelow Basford Hatherton Blakenhall Hough Bridgemere Hunsterson Buerton Lea Checkley-cum- Wrinehill Newhall Chorlton Rope Dodcott-cum- Wilkesley Shavington Doddington Walgherton Weston Wybunbury	Welfare Centre, Wesleyan Chapel, Audlem 1st and 3rd Tues. p.m. Welfare Centre, Church Hall, Shavington 2nd & 4th Tues. p.m.
DISTRICT No. 16c. Miss R. Walch, Wychdale, Colleys Lane, Willaston, Nantwich	Willaston Wistaston	Welfare Centre, Memorial Hall, Church Lane 2nd. & 4th. Wed. p.m. Wistaston Paediatric Clinic, Stalbridge Rd., Crewe 1st Fri. p.m.
DISTRICT No. 17a Mrs. A. Clayton, The Dowery, Barker Street, Nantwich	Barthomley Crewe (Rural) Church Lawton Haslington Odd Rode	Welfare Centre, Yoxall Institute, Haslington 2nd & 4th Tues. p.m. Welfare Centre, Parish Hall, Odd Rode 2nd & 4th Wed. p.m. Welfare Centre, Methodist Sunday School, 1st & 3rd Wed. p.m. Mow Cop Welfare Centre, The Institute, Rode Heath 2. d & 4th Mon. p.m. E.N.T. Clinic, Marriott House, Sandbach 4th Fri. a.m.
DISTRICT No. 17b Miss A. Mullany, 151, Welsh Row, Nantwich	Crewe M.B. (South District)	
Mrs. F. E. Strowbridge, 120, Stewart Street, Crewe	Crewe M.B. (Central District)	
Mrs. L. M. D. Atkinson,* 12, Crewe Road, Shavington	Crewe M.B. (East District)	
Miss E. Broom,* 10, Clifton Avenue, Crewe	Crewe M.B. (North Central District)	Paediatric Clinic, Ludford Street, Crewe 3rd Fri. p.m. (Tel. Crewe 2376)

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 17b (cont.)

Miss J. S. Reid,*
199, Edleston Road,
Crewe

Crewe M.B.
(West & Coppenhall District)

*These Health Visitors also attend on rota the four
other Clinics listed opposite.

§ These Health Visitors also attend the Clinics listed opposite.

Welfare Centre, Minshull New Road, Crewe
1st, 3rd and 5th Mon. p.m.
E.N.T. Clinic, Ludford Street, Crewe
3rd Fri. a.m.
Child Welfare Clinic, Ludford Street, Crewe
Thurs. a.m. & p.m.
M.A. Clinic, Ludford Street, Crewe
Mon. & Wed. a.m.
Ante- & Post Natal Clinic, Ludford Street,
Wed. p.m. Crewe
Eye Clinic, Ludford Street, Crewe
Wed. a.m.
Child Welfare Clinic, Stalbridge Road, Crewe
Mon. p.m. & Wed. a.m. (Tel. Crewe 2450)
M.A. Clinic, Stalbridge Road, Crewe
Tues. a.m.
Eye Clinic, Stalbridge Road, Crewe
As required
Paediatric Clinic, Stalbridge Road, Crewe
1st Fri. p.m.
Ante- and Post Natal Clinic, Stalbridge Road,
Thurs. p.m. Crewe

DISTRICT No. 17c.

Miss E. G. Smith.
42, Primrose Avenue,
Haslington,
Crewe

Alsager U.D.
Betchton

Hassall
Smallwood

Welfare Centre, St. Mary's Sunday School,
1st and 3rd Tues. p.m. Alsager
M.A. Clinic, 15, Centre Court, Alsager
Mon.—Fri. 9-10 a.m. (Tel. Alsager 628)
E.N.T. Clinic, 15, Centre Court, Alsager
3rd Mon. p.m.
Eye Clinic, 15, Centre Court, Alsager
1st Thurs. p.m.
Preparation Class, 15, Centre Court, Alsager
2nd & 4th Thurs. p.m.

DISTRICT No. 18a.

Miss M. A. Cowley,
2, Dyar Terrace,
Winnington, Northwich
(Tel. Northwich 4529)
Miss M. Lea.
18, Oughtrington Lane, Lymm

Antrobus

Grappenhall

Welfare Centre, Methodist Sunday School,
Tues. p.m. Grappenhall

Appleton

Stretton

DISTRICT No. 18b.

Miss M. Newbold,
62, Fairfield Gardens,
Stockton Heath,
Warrington

Stockton Heath

Welfare Centre, 65, Whitefield Road, Stockton
Mon. p.m. Heath (Tel. S.H. 925)
M.A. Clinic, 65, Whitefield Road, Stockton
Mon.—Fri. 9-10 a.m. Heath
Eye Clinic, 65, Whitefield Road, Stockton
4th Tues. p.m. Heath
Preparation Class, 65, Whitefield Road,
Fri. p.m. Stockton Heath

DISTRICT No. 19

Miss F. L. Govan,
29, Eagle Brow,
Lymm,
Warrington

Lymm U.D.
High Legh

Warburton

Welfare Centre, 29, Eagle Brow, Lymm
Tues. p.m. (Tel. Lymm 277)
M.A. Clinic, 29, Eagle Brow, Lymm
Wed. a.m., 2nd & 4th Wed. p.m.
Eye Clinic, 29, Eagle Brow, Lymm
4th Thurs. p.m.
Welfare Centre, High Legh Hall Camp, High
1st & 3rd Wed. p.m. Legh

DISTRICT No. 20.

Miss M. Saunders,*
10, Newlyn Drive,
Brooklands, Sale
Mrs. E. Heywood,*
70, Chapel Road, Sale
(Tel. Sale 1329)

Sale M.B.
(St. Martin's & Mersey (NP)
Wards)

Sale M.B.
(Sale Moor Ward)

Welfare Centre, Raglan Road, Sale
Tues. p.m.
Welfare Centre, Brookes Institute, Sale
Fri. p.m.
Welfare Centre, Community Centre, Sale
Thurs. p.m. Moor
Welfare Centre, Brookes Institute, Sale
Fri. p.m.
M.A. Clinic, 70, Chapel Road, Sale
Wed. a.m.
Welfare Centre, 70, Chapel Road, Sale
Tues. p.m.
Ante- & Post Natal Clinic, 70, Chapel Road,
Wed. p.m. Sale
Welfare Centre, Community Centre, Sale
Thurs. p.m. Moor
Welfare Centre 70, Chapel Road, Sale
Thurs. p.m.
Welfare Centre, Raglan Road, Sale
Tues. p.m.

Mrs. M. Holmes*
60, Broad Road,
Sale

Sale M.B.
(St. Anne's NB &
St. John's Wards)

Miss B. Cunliffe,*
76, Harboro' Road,
Sale

Sale M.B.
(St. Mary's and Brooklands
Wards)

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 20 (cont.)

Miss J. Sidebottom,*
9, South Road,
Bowdon

Sale M.B.
(St. Paul's, St. Anne's (NA &
NC) & Mersey (NQ & NR))
Wards)

*These Health Visitors also attend on rota
the Clinics opposite.

Welfare Centre, 70, Chapel Road, Sale
Tues. & Thurs. p.m.
Sun-ray Clinic, 70, Chapel Road, Sale
Mon. & Fri. p.m.
Eye Clinic, 70, Chapel Road, Sale
Mon., a.m.
Immunisation Clinic 70, Chapel Road, Sale
Fri. a.m.

DISTRICT No. 21a.

Miss E. Edwards,
Top Flat,
1, Hawthorn Road,
Hale,
Altrincham

Hale U.D.
(North, Central & West Wards)
Ashley

M.A. Clinic, 9, Broomfield Lane, Hale
(Tel. Alt. 4653)
Mon. & Fri. p.m., Wed. a.m.

Welfare Centre, 9, Broomfield Lane, Hale
2nd-5th Wed. p.m.

Ante-Natal Clinic, 9, Broomfield Lane, Hale
1st Wed. p.m.

Eye Clinic, 9, Broomfield Lane, Hale
Tues. a.m.

Vaccination and Immunisation Clinic,
9, Broomfield Lane, Hale
1st Thurs. a.m.

Welfare Centre, Methodist Schoolroom,
2nd & 4th Thurs. p.m. Bowdon

Welfare Centre, 9, Broomfield Lane, Hale
2nd-5th Wed. p.m.

Ante-Natal Clinic, 9, Broomfield Lane, Hale
1st Wed. p.m.

Welfare Centre, Unitarian School Room, Hale
1st & 3rd Thurs. p.m. Barns

Miss A. Milvenan,
1, Bollin Court,
Bowdon,
Altrincham

Bowdon U.D.
Hale U.D. (Hale Barns Ward)
Ringway Rostherne
Tatton

DISTRICT No. 21b

Miss L. E. H. Tripp,
Sampford Brett,
Wainwright Road,
Altrincham
(Tel. Altrincham 1884)

Mrs. F. Pickering,
27, Fairholme Road,
Davenham,
Northwich

Mrs. M. L. Baker,
38, Delahays Road,
Hale,
Altrincham

Agden
Bollington
Carrington

Dunham Massey
Millington
Partington

Welfare Centre, St. Mary's Institute,
1st & 3rd Thurs. p.m. Partington

Altrincham M.B.
(Dunham & North Wards)

M.A. Clinic, 12, The Mount, Altrincham
Even months Mon. a.m. (Tel. Alt. 1733)
Welfare Centre, 12, The Mount, Altrincham
Wed. p.m.

Vacc. & Imm. Clinic, 12, The Mount,
2nd Wed. a.m. Altrincham

Welfare Centre, 12, The Mount, Altrincham
Mon. & Wed. p.m.

M.A. Clinic, 12, The Mount, Altrincham
Odd months Mon. a.m.

Mrs. E. G. Morrison,
21, Thorley Lane,
Timperley.

Miss F. M. Burt,
37, Barrington Road,
Altrincham

Miss D. Whitworth,
12 Nethercroft Road,
Timperley,
Altrincham

Altrincham M.B.
(Timperley No. 1 & No. 3 Wards)

Altrincham M.B.
(Timperley No. 4. (AU, AV and
AW Ward)

Altrincham M.B.
(Timperley No. 2 & No. 4 (AS &
AT Wards)

Welfare Centre, 145, Park Road, Timperley
Tues. & Thurs. p.m.

Ante-Natal Clinic, 145, Park Road, Timperley
2nd & 4th Mon. p.m.

Ante-Natal Clinic, 145, Park Rd., Timperley
2nd & 4th Mon. a.m. (Tel. Sale 6639)

Welfare Centre 145, Park Road, Timperley
Thurs. a.m. & p.m.

M.A. Clinic 145, Park Rd., Timperley
Wed. a.m.

Welfare Centre, 145, Park Road, Timperley
Tues. a.m. & p.m.,

DISTRICT No. 22a

Miss C. M. Marsh,
23, King's Close,
Wilmslow,
Cheshire

Alderley Edge U.D.
Wilmslow U.D. Chorley
(Hough & Morley Great Warford
Wards) Marthall
Mobberley

Welfare Centre, 3, Alma Lane, Wilmslow
Thurs. p.m.

Welfare Centre, Victory Hall, Mobberley
Alternate Tues p.m.

Welfare Centre, Church Institute, Alderley
Fri. p.m. Edge

DISTRICT No. 22b

Miss K. Halstead,
11, Park Road,
Cheadle

Wilmslow U.D.
(Handforth & Styal Wards)

Welfare Centre, Conserv. Women's Club,
2nd & 4th Mon. p.m. Handforth

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 22c Miss D. M. Bowers, 1, Albany Road, Wilmslow, Cheshire	Wilmslow U.D. (Dean Row and Fulshaw Wards)	Welfare Centre, 3, Alma Lane, Wilmslow <i>Thurs. p.m.</i> M.A. Clinic, 3, Alma Lane, Wilmslow <i>Thurs. a.m.</i> Eye Clinic, 3 Alma Lane, Wilmslow <i>1st Tues. p.m.</i> Welfare Centre, Parish Hall, Barlow Road, <i>2nd & 4th Mon. p.m.</i> Lacey Green
DISTRICT No. 23a Miss M. Spencer, 2, Elm Drive, Macclesfield	Bosley Chelford Eaton Gawsworth Henbury Hulme Walfield Marton Mottram-St.- Andrew North Rode	Nether Alderley Over Alderley Prestbury Siddington Somerford Somerford Booths Snelson Swettenham Twemlow Withington
DISTRICT No. 23b. Miss M. A. Wright, 7, Bollinside, Prestbury, Macclesfield (Tel. Prestbury 8464)	Macclesfield M.B. (Central District)	Welfare Centre, Sanders Sq., Macclesfield <i>Thurs. p.m.</i> (Tel. Macc. 3800) Welfare Centre, 52, Bridge Street, Macclesfield (Tel. Macc. 5501) <i>2nd, 4th & 5th Tues. p.m., Mon. p.m.</i> <i>Fri. p.m.</i> Ante-Natal Clinic, 52, Bridge Street, Maccles- <i>1st & 3rd Wed. p.m.</i> field
Miss F. M. Yates, 17, Newhall Street, Macclesfield	Macclesfield M.B. (South West District)	Welfare Centre, Sanders Square, Macclesfield <i>Thurs. & Fri. p.m.</i> Ante-Natal Clinic, Sanders Square, Maccles- <i>4th Wed. p.m.</i> field M.A. Clinic, Sanders Square, Macclesfield <i>Mon. & Thurs. a.m.</i> Ante-Natal Clinic, Hurdsfield House, Brocklehurst Ave., Macclesfield <i>2nd Wed. p.m.</i> (Tel. Macc. 3282) Ante-Natal Clinic, 52, Bridge Street, Macc. <i>1st & 3rd Wed. p.m.</i>
Miss A. Grills, Springfield (Flat 3), Byron's Lane, Macclesfield	Macclesfield M.B. (North East District)	Welfare Centre, Hurdsfield House, Maccles- <i>Thurs. p.m., 1st Tues. p.m.</i> field Ante-Natal Clinic, Hurdsfield House, Macc. <i>2nd Wed. p.m.</i> Ante-Natal Clinic, Sanders Square, Macc. <i>4th Wed. p.m.</i> Ante-Natal Clinic, 52, Bridge Street, Macc. <i>1st & 3rd Wed. p.m.</i> Welfare Centre, Sanders Square, Macclesfield <i>Alt. Fri. p.m.</i>
Miss T. Martin, 52, Bridge Street, Macclesfield	Macclesfield M.B. (North West District)	Ante-Natal Clinic, 52, Bridge Street, Macc. <i>1st & 3rd Wed. p.m.</i> Welfare Centre, 52, Bridge Street, Macc. <i>Mon. & Fri. p.m.</i> M.A.Clinic, Pierce Street, Macclesfield (Tel. Macc. 3053) <i>1st Mon. p.m., Tues & Fri. a.m., Thurs. p.m.</i> Eye Clinic, Pierce Street, Macclesfield <i>1st Mon. p.m., 1st, 3rd & 4th Tues. p.m.</i> <i>4th Thurs. a.m.</i> E.N.T. Clinic, Pierce Street, Macclesfield <i>1st Fri. a.m.</i> Welfare Centre, Heyes Hall, Weston <i>Wed. p.m.</i>
Miss N. R. Williams, Ivy Cottage, Snelson, Chelford, Macclesfield	Macclesfield M.B. (South East District)	Welfare Centre, Hurdsfield House, Macc. <i>Thurs. p.m., 1st & 3rd Tues. p.m.</i> Ante-Natal Clinic, Hurdsfield House, Macc. <i>2nd Wed. p.m.</i> M.A. Clinic, Pierce Street, Macclesfield <i>2nd, 3rd, 4th & 5th Mon. p.m. & Wed. a.m.</i> Welfare Centre, Sanders Square, Macclesfield <i>Alt. Fri. p.m.</i> Ante-Natal Clinic, Sanders Square, Macc. <i>4th Wed. p.m.</i> Welfare Centre, 52, Bridge Street, Macc. <i>1st Mon. p.m., 2nd Tues. p.m.</i>
There is also a part-time School Nurse, Mrs. P. Swindells, 63, Byron Street, Macclesfield		

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 24 Miss L. Jacks, Abbey Croft, Abbey Road, Sandbach	Sandbach U.D. Brereton Arclid Elton Bradwall	Welfare Centre, Marriott House, Sandbach <i>Tues. a.m. & p.m. (Tel. Sandbach 309)</i> M.A. Clinic, Marriott House, Sandbach <i>Fri. a.m.</i> Eye Clinic, Marriott House, Sandbach <i>2nd 3rd & 4th Mon. p.m.</i> Midwives Clinic and Preparation Class, <i>Fri. p.m. Marriott House, Sandbach</i>
DISTRICT No. 25 Miss M. Corbishley, Moss Head Farm; Gawsworth, Macclesfield (Tel. Sutton 343) Miss D. Austin, 120, High Street, Talke Pits, Stoke-on-Trent, Staffs.	Congleton M.B. (Buglawton & South Wards) Moreton-cum-Alcumlow Newbold Astbury Congleton M.B. (North & West Wards)	Welfare Centre, 12, West Street, Congleton <i>Mon. p.m. (Tel. Congleton 169)</i> Ante-Natal Clinic, 12, West Street, Congleton <i>Fri. p.m.</i> M.A. Clinic, Park Street, Congleton <i>Mon. a.m. (Tel. Cong. 2095)</i> Eye Clinic, Park Street, Congleton <i>2nd Wed. p.m.</i> E.N.T. Clinic, Park Street, Congleton <i>Odd months 4th Thurs. a.m.</i> Welfare Centre, 12, West Street, Congleton <i>Mon. p.m.</i>
DISTRICT No. 26a Mrs. M. B. Batty, 14, Parrswood Court, Manchester, 20	Cheadle and Gatley U.D. (Cheadle Hulme (S) and Adswood Wards)	M.A. Clinic, All Saints' Parish Room, Cheadle <i>Wed. p.m., Hulme</i> Welfare Centre, All Saints' Parish Room, <i>Tues. p.m. Cheadle Hulme</i> Welfare Centre, Mission Hall, Adswood <i>1st & 3rd Mon. p.m.</i> Eye Clinic, All Saints' Parish Room, Cheadle <i>2nd & 4th Tues. a.m. Hulme</i> E.N.T. Clinic, Brookfield, Wilmslow Rd., <i>Even months 2nd Mon. p.m. Cheadle</i>
DISTRICT No. 26b. Miss W. C. Heron, 83, Turves Road, Cheadle Hulme	Cheadle and Gatley U.D. (Cheadle East and West Wards)	M.A. Clinic Brookfield, Wilmslow Road, <i>Mon. a.m. Cheadle (Tel. Gatley 6290)</i> Welfare Centre, Brookfield, Wilmslow Road, <i>Tues. p.m. & 3rd Wed. p.m. Cheadle</i> Eye Clinic, Brookfield, Wilmslow Road, <i>2nd & 3rd Thurs. a.m. Cheadle</i> Hearing Clinic, Brookfield, Wilmslow Road, <i>1st & 4th Mon. p.m. Cheadle</i>
DISTRICT No. 26c Miss N. Heenan, 146, Edgeley Road, Cheadle Heath, Stockport	Cheadle and Gatley U.D. (Gatley Ward)	Ante-Natal Clinic, Brookfield, Wilmslow Road <i>Fri. p.m. Cheadle</i> Welfare Centre, Cong. Sunday School, Gatley <i>2nd & 4th Thurs. p.m. 3rd Wed. p.m.</i> Preparation Class, Brookfield, Wilmslow Road, <i>1st, 3rd and 5th Thurs p.m. Cheadle</i>
DISTRICT 26d Miss I. C. G. Harrison, 13, Victoria Avenue, Cheadle Hulme, (Tel. Hulme Hall 933805)	Cheadle and Gatley U.D. (Cheadle Hulme (N) & Heald Green Wards)	Welfare Centre, Methodist Church, Heald <i>1st & 3rd Thurs. p.m. Green</i> Welfare Centre, Brookfield, Wilmslow Rd., <i>Tues. p.m. Cheadle</i> Ante-Natal Clinic, Brookfield, Wilmslow Rd., <i>Fri. p.m. Cheadle</i> Preparation Class, Brookfield, Wilmslow <i>2nd & 4th Thurs. p.m. Road, Cheadle</i> Hearing Clinic, Brookfield, Wilmslow Road, <i>1st & 4th Mon. p.m. Cheadle</i>
DISTRICT No. 27a. Miss G. M. Bullough, 4, Belvoir Avenue, Hazel Grove, Nr. Stockport	Hazel Grove and Bramhall U.D. (North & East Wards)	Welfare Centre, 253, London Road, Hazel <i>Tues. p.m. & Thurs. p.m. Grove</i> M.A. Clinic, 253, London Road, Hazel Grove <i>Tues. a.m., (Tel. Stepping Hill, 4538)</i> Ante-Natal Clinic, 253, London Road, Hazel <i>Wed. p.m. Grove</i> Eye Clinic, 253, London Road, Hazel Grove <i>1st & 4th Thurs. a.m.</i> E.N.T. Clinic, 253, London Road, Hazel Grove <i>Even months, 3rd Thurs. o.m.</i> Immunisation Clinic, 253, London Road, <i>2nd Thurs. a.m. Hazel Grove</i>
DISTRICT No. 27b. Mrs. B. E. Crosby, 27, Earle Road, Bramhall, Stockport	Hazel Grove and Bramhall U.D. (Woodford and South Wards)	Welfare Centre, Methodist Sunday School, <i>1st & 3rd Mon. p.m. Bramhall</i>

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 28. Miss M. R. Adamson, 47 Ovenhouse Lane, Bollington, Macclesfield	Bollington U.D. Hurdsfield Macclesfield Forest	Rainow Sutton Wildboarclough Windle
		Welfare Centre, Wellington Road, Bollington (Tel. Boll. 2376) 2nd & 4th Thurs., 1st & 3rd Wed. p.m. M.A. Clinic, Wellington Road, Bollington Tues. a.m. Welfare Centre, Lane Ends Club, Sutton 2nd & 4th Wed. p.m. Eye Clinic, Wellington Road, Bollington 2nd Tues. p.m.
DISTRICT No. 29a. Miss S. Morris, 100, Wellington Road North, Stockport	Bredbury and Romiley U.D. (Bredbury Area)	Welfare Centre, Lower Bent's Lane, Bredbury Tues. p.m. M.A. Clinic, Lower Bent's Lane, Bredbury Thurs. a.m. (Tel. Woodley 2892) Ante-Natal Clinic, Lower Bent's Lane, Mon. p.m. Bredbury Eye Clinic, Lower Bent's Lane, Bredbury 2nd Thurs. a.m. Immunisation Clinic, Lower Bent's Lane, 4th Thurs. a.m. Bredbury
DISTRICT No. 29b Mrs. A. D. Law 5, Jubilee Street, New Mills, Stockport	Bredbury and Romiley U.D. (Romiley, Compstall and Woodley Areas)	Welfare Centre, Leyfield Avenue, Romiley Thurs. p.m. (Tel. Woodley 2991) M.A. Clinic, Leyfield Avenue, Romiley Mon. p.m. Immunisation Clinic, Leyfield Ave., Romiley 1st Thurs. a.m. Preparation Class, Leyfield Ave., Romiley Mon. p.m.
DISTRICT No. 29c. Miss A. Bullough,* 655 Rochdale Road, Royton, Oldham, Lancs.	Stalybridge M.B. (Lancashire Ward)	Welfare Centre, Mechanics' Institute, Tues. & Wed. p.m. Stalybridge (Tel. Stalybridge 2304)
Miss M. E. Slack,* 11, Shaw Hall Avenue, Hyde	Stalybridge M.B. (Staley Ward)	Welfare Centre, Mechanics' Institute, Tues. p.m. Stalybridge Eye Clinic, Mechanics' Institute, Stalybridge 2nd, 3rd, & 4th Tues. a.m.
Miss D. P. Flint, 6, Greenbank Road, Marple Bridge, Stockport	Stalybridge M.B. (Millbrook Ward)	Welfare Centre, Huddersfield Rd., Millbrook, Mon. p.m. (Tel. Stalybridge 2544) M.A. Clinic, Huddersfield Rd., Millbrook Mon. & Thurs. a.m. Stalybridge Preparation Class, Huddersfield Road, Wed. p.m. Millbrook
Miss F. M. O'Gara, 4, Old Road, Dukinfield	Stalybridge M.B. (Dukinfield Ward)	M.A. Clinic, Mechanics' Institute, Stalybridge Mon., Wed. & Fri. a.m. Welfare Centre, Mechanics' Institute, Wed. p.m. Stalybridge Welfare Centre, Huddersfield Rd., Millbrook, Mon. p.m. Stalybridge Ante and Post Natal Clinic, Mechanics' Institute, Stalybridge 2nd, 3rd & 4th Thurs. p.m.
* These health visitors also take on rota the other clinic opposite.		
DISTRICT No. 30 Miss W. E. Beresford 11, Shaw Hall Avenue, Hyde	Dukinfield M.B. (Central Ward & West Ward BB)	Welfare Centre, 134, King Street, Dukinfield Wed. a.m. & p.m., (Tel. Ashton 3794) M.A. Clinic, 134, King Street, Dukinfield Mon., Tues., Wed. & Thurs. a.m.
Miss. C. Hellings, Berton Villa, Crescent Road, Dukinfield	Dukinfield M.B. (East Ward AE & AF)	Eye Clinic, 134, King Street, Dukinfield 1st, 2nd & 4th Fri. p.m. E.N.T. Clinic 134, King Street, Dukinfield 4th Mon. p.m. Preparation Class, 134, King St., Dukin- Mon. p.m. field
Mrs. M. Knowles, 189, Stamford Street, Stalybridge	Dukinfield M.B. (East Ward AD and West Ward, BA)	Welfare Centre, King Street, Dukinfield Wed. & Thurs. p.m.

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 31a. Miss D. Wood, 8, Marina Drive, Rose Hill, Marple, Stockport	Longdendale U.D. Tintwistle R.D.	Welfare Centre, Wedneshaugh Green, 1st & 3rd Thurs. p.m. Hollingworth M.A. Clinic, Wedneshaugh Green, Tues. p.m. Hollingworth Welfare Centre, Christ Church School, 2nd & 4th Thurs. p.m. Tintwistle Welfare Centre, Wesleyan School, 1st & 3rd Wed. p.m. Broadbottom Immunisation Clinic, Wedneshaugh Green, 2nd Mon. p.m. Hollingworth Midwives Clinic, Wedneshaugh Green, Tues. p.m. Hollingworth
DISTRICT No. 31b. Miss F. Lonsdale,* Woodhaven, Woodend Lane, Hyde (Tel. Hyde 739) Miss M. E. Marsh* Thornbank, Mottram Road, Hyde (Tel. Hyde 160) Miss N. P. M. Trahan,* 212, Astley Street, Dukinfield (Tel. Ashton 1689) Miss M. Taylor,* 1, Erskine Road, Blackley, Manchester, 9	Hyde M.B. (Godley Ward pt. i) Hyde M.B. (Newton Ward pt. i) Hyde M.B. (Godley Ward pt. ii, Newton Ward pt. iii) Hyde M.B. (Werneth Ward, Newton Ward pt. ii)	Welfare Centre, Parsonage Street, Hyde Wed. p.m. (Tel. Hyde 828) Ante-Natal Clinic, Parsonage Street, Hyde Thurs. p.m. Welfare Centre, Parsonage Street, Hyde 1st & 3rd Thurs. o.m. Welfare Centre, Bayley Hall, Hyde Fri. p.m. (Tel. Hyde 265) Welfare Centre, Bayley Hall, Hyde Mon. p.m. Welfare Centre, Parsonage Street, Hyde 2nd & 4th Thurs. a.m. Specialist's Eye Clinic, Reform Club, Hyde 1st Tues. o.m., 3rd Fri p.m. D.M.O.'s Eye Clinic, Reform Club, Hyde 4th Tues. a.m. M.A. Clinic, Reform Club, Hyde Mon., Wed. & Fri. a.m. (Tel. Hyde 689)
*These Health Visitors also attend on rota the other Clinic opposite.		
DISTRICT No. 32a. Miss B. F. Sherratt, Ashdene, Leafield Road, Disley, Stockport (Tel. Disley 268)	Marple U.D. (Ludworth, Mellor & North Wards)	Welfare Centre, Stockport Road, Marple Wed. p.m. (Tel. Marple 1806) Welfare Centre, Methodist Sunday School, 2nd & 4th Thurs. p.m. Marple Bridge Welfare Centre, Methodist Sunday School, 1st & 3rd Thurs. p.m. Mellor Preparation Class, Stockport Road, Marple Fri. p.m.
DISTRICT No. 32b. Miss B. Brewster, Spout House Farm, Strines, Stockport (Tel. Marple 1494)	Marple U.D. (Cent. & South Wards) Disley R.D.	Welfare Centre, Stockport Road, Marple Wed. p.m. (Tel. Marple 1806) Welfare Centre, Village Hall, High Lane, 2nd & 4th Tues. p.m. Welfare Centre, Glencil House, Disley 1st & 3rd Tues. p.m. (Tel. Disley 62) M.A. Clinic, Stockport Road, Marple Wed. a.m. Eye Clinic, Stockport Road, Marple 3rd Thurs. o.m.
DISTRICT No. 33. Miss F. E. Kilbourn, Edendale, Buxton Road, Newtown, New Mills, Stockport	Adlington Kettleshulme Lyme Handley	Pott Shrigley Poynton
		Welfare Centre, Park Lane, Poynton (Tel. Poynton 2127) 1st & 3rd Thurs. p.m. M.A. Clinic, Park Lane, Poynton Tues. p.m. E.N.T. Clinic, Park Lane, Poynton Even months, 3rd Wed. p.m. Eye Clinic, Park Lane, Poynton Even months, 2nd Thurs. p.m. Midwives' Clinic, Park Lane, Poynton Mon. p.m.

HOME NURSES (142)

(Those marked * practise Midwifery)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Acton	Miss L. C. Jones*	The Grove, Acton, Nantwich	Nantwich 5571
Adlington	Mrs. K. A. Dawson*	Sunshine Cottage, Butley Lane, Adlington, Macclesfield	Prestbury 8360
Alderley	Mrs. E. Gornall*	Nurse's Cottage, Monksheath, Chelford, Macclesfield	Chelford Relief216
Alderley Edge	Miss M. M. Hatton*	Holly Croft, Row of Trees, Alderley Edge, Cheshire	Alderley Edge3364
Aldford	Mrs. D. Mellor*	Nurse's Cottage, Aldford, Chester	Aldford 37
Alsager	Mrs. E. Weatherall	25, Cresswellshawe Road, Alsager, Stoke on Trent	Alsager 67
Altrincham	Miss D. Kershaw	61, Harcourt Road, Altrincham	Altrincham 2550
	Miss W. M. Barber*	53, Oxford Road, Altrincham	Altrincham 0138
	Mrs. S. J. McGrath	28, Albert Road, Hale, Altrincham	Altrincham 0906
	Miss E. Moores*	Kilrea, Market St., Altrincham	Altrincham 2051
	Mrs. F. B. Grayson	38, Langdale Road, Sale, Cheshire	Sale 3843
Ashton	Miss M. McClement-Williams*	District Nurse's Home, Smithy Lane, Mouldsworth, Chester	Manley 268
Ashton-on-Mersey	Miss B. Kitchen	13, Harcourt Road, Sale, Cheshire	Sale 5764
Astbury	Miss V. Spencer*	Black & White Cottage, Astbury, Congleton	Congleton 451
Audlem	Miss M. H. Hunter*	The Gables, Audlem, Crewe	Audlem 422
Barnston	Miss A. M. Jones*	Watmough, Pensby Road, Thingwall, Heswall, Wirral	Irby 1496
Barnton	Mrs. S. M. Dorling*	5, Cross Street, Barnton, Northwich	Northwich 4080
Barrow	Miss G. Jones*	Minniffordd, High Street, Tarvin, Chester	Tarvin 240
	Miss B. Walker	Minniffordd, High Street, Tarvin, Chester	Tarvin 240
Bebington	Miss L. Cullum	1a, New Chester Road, New Ferry	Rock Ferry 4095
Bickerton	Miss M. G. Griffiths	10, Kempson Terrace, Bebington	Bromborough 2480
	Miss A. Jones*	24, Mill Grove, Bulkeley, Malpas	Cholmondeley 217
	Miss A. Barlow*	13, Waterhouse Avenue, Bollington, Macclesfield	Bollington 3179
Bollington	Mrs. M. Wood	Ingersley Vale Cottages, Bollington Macclesfield	Bollington 3204
Bramhall	Miss N. D. Entwistle*	81, Ack Lane, Bramhall, Stockport	Bramhall 2377
	Mrs. M. C. Hallett*	Gresford, Moor Lane, Woodford, Stockport	Bramhall 1012
Bredbury	Mrs. S. A. Christmas*	9, Merton Avenue, Bredbury, Stockport	Woodley 3778
	Miss W. Watkins*	1, Barker Road, Bredbury	Woodley 3631
Bromborough	Miss F. Baughan	27, Queensbury Avenue, Brom- borough, Wirral	Bromborough1037
	Mrs. A. Thompson	41, Heygarth Road, Eastham, Wirral	Eastham 1647
Buglawton	Miss M. S. Bowman*	4, High Lowe Avenue, Buglawton, Congleton	Congleton 444
Bunbury	Mrs. E. C. Hurst*	Coniston, Bunbury, Tarporley	Bunbury 367
Burton	Miss M. Jones*	Pear Tree Cottage, Burton, Neston, Wirral	Burton 230

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Castle, Northwich	Miss M. A. Higgs*	37, Park Street, Northwich	Northwich 4041
Cheadle	Mrs. W. Wareing*	6, Waldon Avenue, Cheadle, Cheshire	Gatley 3904
		6, Waldon Avenue, Cheadle, Cheshire	Gatley 3904
Cheadle Hulme	Miss C. Maher*	58, Ladybridge Road, Cheadle Hulme, Stockport	Hulme Hall 261
Chelford	Miss J. Hughes*	Church House, Chelford, Macclesfield	Chelford 314
Cholmondeley	Miss M. Brocklehurst*	Nurse's Cottage, Bickley Moss, Whitchurch	Cholmond- eley 268
Combermerc	Miss W. A. George*	1, Council Houses, Newhall Lane, Aston, Nantwich	Aston (Nantwich) 286
Congleton	Mrs. R. Ward	24, The Westlands, Congleton	Congleton 2104
Crewe	Miss C. Moss	5, Tynedale Avenue, Crewe	Crewe 3947
	Mrs. E. Heap	225, Wheelman Road, Crewe	Crewe 3163
	Mrs. V. E. Davies	94, Ludlow Avenue, Crewe	Crewe 4081
Darcsbury	Miss G. Roberts*	Delph Cottage, Daresbury, Warrington	Moore 266
Davenham	Miss M. Buckley*	437, London Road, Davenham, Northwich	Northwich 3027
Delamere	Miss D. E. Joseph*	Wayside, Cotcbrook, Tarporley	Little Budworth 391
Disley	Mrs. A. Rodger*	Grenaghan, Hollinwood Road, Disley, Stockport	Disley 298
Doddington	Miss M. A. Edwards*	2, Back Lane, Walgherton, Nantwich	Wybunbury 345
Dodleston	Mrs. M. E. Pilliner*	30, St. Mary's Rd., Dodleston, Chester	Kinnerton 264 Ashton 1689
Dukinfield	Miss E. M. Ambler	212, Astley Street, Dukinfield	
	Miss O. Morton	40, Jeffreys Street, Dukinfield	
Dunham Massey	Miss W. Lewis	35, Bucklow Avenue, Partington, Urmston, Manchester	Irlam 264
Ellesmere Port	Miss M. I. Raby	12, Thamesdale, Whitby, Wirral	E. Port 2542
	Mrs. A. Engstrom	66, Queen Street, Ellesmere Port	E. Port 2543
Farndon	Miss K. E. Hewitt*	14, Parker Drive, Farndon, Chester	
Frodsham	Mrs. M. Rhaney*	Wee Brae, Townfield Lane, Frodsham, Warrington	Frodsham 2386
	Mrs. C. L. Ormsby*	10, Kingsway, Frodsham	Frodsham 2109
Gawsworth	Mrs. A. Parsons*	2, Warren Grove, Gawsworth	Macclesfield 2187
Goostrey	Miss G. Magee*	Booth Bank Road, Goostrey, Crewe	Holmes Chapel 3244
Grappenhall	Miss I. M. Darley	30, George's Crescent, Grappenhall, Warrington	Grappenhall 275
Great Budworth	Mrs. D. Sherratt*	Rose Bank, Marbury Lane, Comberbach, Northwich	Comberbach 279
Hale Barns	Miss M. L. Plant*	3, Golf Road, Hale, Altrincham	Altrincham 1893
Halton	Mrs. G. M. Williams*	47, Main Street, Halton, Runcorn	Runcorn 2597
Handforth	Miss M. E. Bailey*	Oak Brow Cottage, Styal, Wilmslow, Cheshire	Wilmslow 2738
Hartford			
Haslington	Miss D. Williams*	33, Cartwright Road, Haslington, Crewe	Crewe 2693

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Hazel Grove	Miss S. E. Ratcliffe*	62, Talbot Street, Hazel Grove	Stepping Hill 2292	
	Miss W. M. Curtis*		Stepping Hill 2292	
Heald Green	Miss R. McMechan*	45, Neal Avenue, Heald Green	Gatley	8138
Helsby	Mrs. N. E. Stewart*	Thorns, Alvanley Road, Helsby Warrington	Helsby	143
Heswall	Miss C. M. Edwards*	1, Shrewsbury Road, Heswall, Wirral	Heswall	710
Higher Bebington	Mrs. M. R. Heatley	203, Teehey Lane, Bebington, Wirral	Mountwood	1126
Higher Sutton	Mrs. M. M. Brown*	1, Robin Crescent, Sutton, Macclesfield	Sutton	363
High Lane	Mrs. J. Banks*	Hill View, Windlehurst Road, Hawk Green, Marple	Marple	385
Hollingworth	Mrs. G. E. Hewitt	Mount House, Hollingworth, Manchester	Mottram	3210
Holmes Chapel	Miss L. B. Blunsum*	19, West Way, Holmes Chapel, Crewe	H. Chapel	2226
Hoylake	Miss L. Hughes	44, Stanley Road, Hoylake	Hoylake	1517
Hyde	Miss G. McClean	17, Henry Street, Hyde	Hyde	2488
	Miss H. Sutton	17, Henry Street, Hyde	Hyde	2488
Ince	Mrs. E. Parker*	Park Wood, Dunham Hill, Warrington	Helsby	169
Irby	Miss G. Wotton*	Irby Hill Farm, Mill Hill Road, Irby, Heswall, Wirral	Irby	1752
Irby South	Miss M. E. Herbert*	10, Greenway, Pensby, Heswall, Wirral	Irby	1779
Knutsford	Miss D. Cadogan*	Mere Heath Lane, Mere, Knutsford	Knutsford	505
	Miss M. E. Tierney*	Flat No. 1, Westfield Drive, Knutsford	Knutsford	504
Little Leigh	Miss E. M. Fishwick*	14, Brakeley Lane, Little Leigh, Northwich	Comberbach	275
Little Sutton	Mrs. V. Sandbach	22, Glenwood Road, Little Sutton, Wirral	Hooton	2110
Lostock Gralam	Mrs. W. G. Hunson*	337, Manchester Road, Lostock Gralam, Northwich	Northwich	3046
Lymm	Miss F. M. Kneale	26, Highfield Road, Lymm, Warrington	Lymm	116
	Mrs. A. B. James	61, Star Lane, Lymm, Warrington	Lymm	399
Macclesfield	Mrs. K. M. Ashmore	50, Saville St., Macclesfield	Macclesfield	3643
	Miss M. Otter	11, Northgate Av., Macclesfield,	Macclesfield	2169
	Mrs. M. Earlam	72, Earlsway, Weston, Macclesfield	Macclesfield	4887
Malpas	Mrs. D.M.T. Brooks*	5, Springfield Road, Malpas	Malpas	96
Marple	Miss C. Turner*	19, Greenbank Crescent, Marple, Stockport	Marple	361
Marple Bridge	Miss N. Greenleaf*	The Cottage, 66, Lower Fold, Marple Bridge, Stockport	Marple	166
Marston	Mrs. E. Davies*	Brackley, Pickmere Lane, Pickmere, Knutsford	Pickmere	242
Middlewich	Miss E.M.Adamson*	Hayward, Croxton Lane, Middlewich	Middlewich	151
	Miss G. Benger*			
	Miss G. M. Ahonius*	37, George VI Avenue, Middlewich	Middlewich	933151

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Mobberley	Miss B. H. Harrop*	18, Edenfield Av., Mobberley Knutsford	Mobberley	3132
Mossley Mottram	Mrs. I. M. Huyton	25, Stockport Road, Mottram, Manchester	Mottram	2183
Moulton	Miss V. R. Watts*	11, Regent Street, Moulton, Northwich	Winsford	2346
Nantwich	Miss E. Larnach*	1, Wellington Road, Nantwich	Nantwich	65294
	Miss M. Mansfield*	1, Wellington Road, Nantwich	Nantwich	65294
Neston	Miss D. Price*	3, Landseer Avenue, Neston Wirral	Neston	1185
Norley	Miss I. E. Belsham*	Nurse's Bungalow, Crabmill Lane, Norley, Warrington	Kingsley	265
Odd Rode	Miss H. Barry*	2, Drenfell Road, Scholar Green, Stoke-on-Trent	Kidsgrove	2929
Poynton	Miss A. Cheetham*	82, Barnaby Road, Poynton, Stockport	Poynton	2137
Prestbury	Miss M. A. Wright*	7, Bollinside, Prestbury Macclesfield	Prestbury	8464
Rainow	Miss A. K. Keates*	Oakwood, Chapel Lane, Rainow, Macclesfield	Bollington	2184
Romiley	Miss F. W. Gowan*	9, Windsor Grove, Romiley		
Rudheath	Miss M. Morris*	602, London Road, Mereheath, Northwich	Northwich	2823
Runcorn	Mrs. E. Booth	54, Heath Road South, Weston, Runcorn	Runcorn	2342
	Mrs. F. Fowles	26, Hazel Avenue, Runcorn	Runcorn	2849
	Mrs. J. E. Livesey	8, Lynden Grove, Runcorn	Runcorn	3260
Sale	Miss L. Powell	22, George's Road, Sale	Sale	7033
	Mrs. W. F. Råad	107, Royton Avenue, Sale	Sale	6135
Sandbach	Miss N. W. Evans*	5, Elworth Street, Sandbach	Sandbach	256
		5, Elworth Street, Sandbach	Sandbach	256
Sandiway	Miss E. Whaite*	The Cottage, Glebe Road, Cuddington, Northwich	Sandiway	2252
Saughall	Miss D. Phillips*	9, Lodge Lane, Saughall, Chester	Saughall	200
Shavington	Miss W. Emery*	14 Edwards Close, Shavington	Crewe	7234
Stalybridge	Mrs. E. H. Slater	295, Huddersfield Road, Stalybridge	Stalybridge	2448
	Miss D. H. Garner	} 27, Copley Avenue, Stalybridge	Stalybridge	3188
	Miss D. M. Thompson			
Stapeley	Miss E. Reilly*	41, London Road, Stapeley, Nantwich	Nantwich	5570
Stockton Heath	Miss H. M. Davies	68, Mill Lane, Stockton Heath, Warrington	St'k'on Heath	1489
	Mrs. O. Saunders	12, Worsley Road, Walton, Warrington	St'k'on Heath	896
Stretton	Miss G. Meredith*	3, Beverley Avenue, Appleton, Warrington	St'k'on Heath	573
Tarporley	Mrs. M. Stewart*	99, High Street, Tarporley	Tarporley	153
Tattenhall	Miss M. U. Burke*	76, Tattenhall Road, Tattenhall	Tattenhall	387
Tilston	Miss N. Priest*	Fern Lea, Tilston, Malpas	Tilston	249
Timperley	Miss M. B. McGrath	26, Keswick Road, Broomwood Estate, Timperley, Altrincham	Ringway	2912
	Miss M. Rawdon	26, Grove Lane, Timperley	Ringway	3495
Upton	Mrs. E. C. Iball	73, Upton Drive, Upton-by- Chester	Chester	27897

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Vicars Cross and Huntington	Mrs. R. I. Croome	40, Vicars Cross, Chester	Chester 35533
Weaverham	Mrs. H. Dudley*	55, Northwich Road, Weaverham, Northwich	Weaverham 3160
	Mrs. E. L. L. Hampson*	Sunfield, Forest Road, Cuddington, Northwich.	Sandiway 2163
West Kirby	Miss J. Howes	27, Burlingham Avenue, Grange, West Kirby, Wirral	Hoyslake 1203
Wheelock	Miss E. E. Gerrard*	647, Crewe Road, Wheelock, Sandbach	Sandbach 281
Willaston (Wirral)	Miss G. Lloyd*	The Grey Cottage, Hooton Road, Willaston, Wirral	Willaston 2112
Willington	Mrs. M. S. Vickers*	9, Carter Avenue, Kelsall, Chester	Kelsall 286
Wilmslow	Miss E. B. Grindrod*	23, Kings Close, Wilmslow, Cheshire	Wilmslow 5525
	Miss D. B. Flenley*	17, Bourne Street, Wilmslow, Cheshire	Wilmslow 2615
	Miss F. Marsden*	1, Prescott Road, Lacey Green Estate, Wilmslow, Cheshire	Wilmslow 5577
Winnington	Miss A. Wright*	2, Dyar Terrace, Winnington	Northwich 4529
Winsford	Miss I. E. Bremner*	92, Weaver Street, Winsford	Winsford 2228
	Miss P. M. Jones*	92, Weaver Street, Winsford	Winsford 2228
		92, Weaver Street, Winsford	Winsford 2228
Wistaston	Miss S. G. Black*	37, Coppice Road, Willaston, Nantwich	Crewe 7109
Witton	Mrs. I. Owen	Dinastre, Lime Av., Leftwich, Northwich	Northwich 3093
Worleston	Mrs. R. E. Fort*	Laundry Cottage, Rookery Park, Worleston, Nantwich	Nantwich 65941
	Mr. W. Hudson	337, Manchester Road, Lostock Grlam, Northwich	Northwich 3046
Relief			
	Mrs. R. Adams	34, Oulton Avenue, Sale, Cheshire	Sale 8453
	Mrs. B. Baker	79, Townfield Lane, Bebington	Rock Ferry 5341
	Mrs. G. A. Baldwin	22, Marley Avenue, Coppenhall, Crewe	Crewe 3520
	Mrs. I. Bennett	55, Gorseville Road, Bebington	Mountwood 3108
	Mrs. M. M. Brocklehurst	Sidmere, Dale Brow, Prestbury, Macclesfield	Prestbury 8811
	Mrs. M. L. Buckley	7, Ascol Drive, Plumley, Knutsford	Northwich 2626
	Mrs. G. M. Bull	102, Picton Avenue, Runcorn	Runcorn 2628
	Miss D. L. Carlisle	7b Madison Avenue, Cheadle Hulme	
	Mrs. M. Chesters	23, Davenport Avenue, Crewe	Crewe 2131
	Mrs. E. Clarke	12 Brookside Avenue, Poynton, Stockport	Poynton 2506
	Mrs. M. A. Clarke	131, Knott Lane, Hyde	Hyde 1803
	Mrs. K. Coleman	Gairloch, Bramhall Moor Lane, Hazel Grove, Stockport	Stepping Hill 5475
	Mrs. B. Collier	2, Becch Avenue, Rosehill, Marple, Stockport	
	Mrs. D. Davison	26, Cornelius Drive, Pensby, Hcswall, Wirral	Irby 1639
	Mrs. D. M. Edwards	Yew Tree House, Liverpool Road, Neston, Wirral	
	Mrs. M. E. Evans	30, Bedford Road, Macclesfield	Macclesfield 3331

Relief (contd.)

Mrs. J. Fell	3, Long Hey, Hale, Altrincham	Ringway	2491
Mrs. P. M. Flitcroft	165 Wellington Road South, Stockport		
Mrs. A. E. Groucott	3 Winstanley Road, Sale	Sale	7771
Mrs. I. Hall	14, Pulford Road, Sale	Sale	7445
Mrs. F. E. Harrison	14, Asterfield Avenue, Higher Bebington, Wirral	Rock Ferry	2441
Mrs. I. Hoyle	9, Offley Avenue, Sandbach		
Mrs. D. E. Hyde	65, Thamesdale, Whitby, Ellesmere Port, Wirral		
Mrs. H. M. Jackson	44, Cheadle Road, Cheadle Hulme, Stockport	Hulme Hall	423
Mrs. H. M. Johnson	21, Fir Tree Drive, Newton, Hyde		
Mr. B. G. Lamacraft	12 Albert Road, Wilmslow	Wilmslow	2900
Mrs. E. A. Manion	90, Chester Road, Grappenhall, Warrington		
Mrs. F. Massey	1, Woodsome Drive, Whitby, Ellesmere Port, Wirral	Ellesmere Port	2437
Mrs. P. A. Millington	148 Knutsford Road, Grappenhall	Grappenhall	458
Miss E. Riall	26, Nursery Avenue, Hale, Altrincham	Altrincham	2706
Mrs. S. M. Scott	3, Marmion Road, Hoylelake, Wirral	Hoylelake	6017
Mrs. M. J. Sibbitt	18, Linda Drive, Hazel Grove, Stockport	Stepping Hill	1185
Mrs. W. F. Stenning	1, Hillcrest Drive, Little Sutton, Wirral		
Miss E. E. Talbot	16, Poll Hill Road, Heswall, Wirral		
Mrs. U. Van Ulden	5, Beech Grove, Weaverham, Northwich		
Mrs. M. Worley	27, Bentley Road, Denton, Manchester		

COUNTY MIDWIVES

<i>District</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>
Alsager	Mrs. E. L. Pedley (33)	6, Audley Road, Alsager, Stoke-on-Trent	Alsager 583
Altrincham	Mrs. A. Warburton (40)	220 Manchester Road, Broadheath, Altrincham	Altrincham 1484
	Miss M. E. Cassidy (41)	26, Grove Lane, Timperley, Altrincham	Ringway 3495
Bebington	Miss A. K. Morgan (4)	Staniland, Spital Road, Bebington	Bromborough 2707
	Mrs. C. R. Green (5)	152, Town Lane, Bebington	Mountwood 1747
	Mrs. J. N. Blundell (6)	84, Thorburn Road, New Ferry	Bromborough 1953
	Mrs. B. Cass (7)	28, Thornleigh Avenue, Eastham, Wirral	Eastham 2022
Bredbury	Miss Leigh (57)	13, George Lane, Bredbury, Stockport	Woodley 2754
	Miss Morris (57a)	13, George Lane, Bredbury, Stockport	Woodley 2754
Cheadle	Miss A. Gray (49)	157, Turves Road, Cheadle Hulme	Hulme Hall 931546
	Miss D. R. Ricketts (49a)	22, Vicarage Avenue, Cheadle Hulme, Stockport	Hulme Hall 1777
Congleton	Mrs. M. Williams (46)	115, Woolston Av., Congleton	Congleton 690
	Miss D. H. Wright (47)	Ewanrigg, Giantswood Lane, Congleton	Congleton 240
Crewe	Miss E. A. Bimson (27)	20, Gatefield St., Crewe	Crewe 2239
	Miss D. Broad (28)	234, Hungerford Road, Crewe	Crewe 2495
	Miss K. V. Yearsdon (29)	199, Edleston Road, Crewe	Crewe 3701
	Mrs. E. Weston (30)	19, Nelson Street, Crewe	Crewe 3110
	Mrs. M. Parkinson (31a)	32, Brook Street, Crewe	Crewe 3317
Dukinfield	Miss A. Lees (62)	41, Armadale Road, Dukinfield	Ashton 1073
	Miss L. Bradley (63)	24, Morar Road, Dukinfield	Ashton 4261
Ellesmere Port	Miss E. Bowyer (9)	210, Sutton Way, Ellesmere Port, Wirral	Ellesmere Port 2964
	Mrs. M. H. Bendell (10)	Lyndale, 6, Palm Grove, Sunny Haven Estate, Whitby, Ellesmere Port	Ellesmere Port 1982
	Mrs. V.E. Corson (11)	40, Wilkinson Street, Ellesmere Port	Ellesmere Port 146
	Mrs. E. Evans (12)	85, Grace Road, Ellesmere Port	Ellesmere Port 1188
	Mrs. A.E. Williams (13)	6, York Road, Ellesmere Port	Ellesmere Port 329
Grappenhall	Miss O. M. Heath (21)	10, Cedar Avenue, Stockton Heath, Warrington	Stockton Heath 1265
Hale			
Hazel Grove	Miss F. W. Hampson (50)	335, London Road, Hazel Grove, Stockport	Stepping Hill 3131
Hollingworth	Mrs. B. Glen (66)	6, Claylands Close, Hollingworth, Manchester	Mottram 3313
Hoylake and	Miss Mona Williams (1)	1, Trinity Road, Hoylake, Wirral	Hoylake 3084
West Kirby	Mrs. E. Jemmett (2)	58, Gresford Avenue, West Kirby, Wirral	Hoylake 1552
Hyde	Mrs. P. Boote (64)		Hyde 1005
	Mrs. J. H. Jones (65)	82, Knott Lane, Hyde	Hyde 1914
	Miss M. Coote (66a)	48, Barley Croft Road, Newton, Hyde	Hyde 1161

COUNTY MIDWIVES (contd.)

<i>District</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>
Lymm	Miss J. Pike (34)	21, The Crescent, Lymm, Warrington	Lymm 725
Macclesfield	Mrs. B. J. Whittaker (52)	12, Garden Street, Macclesfield	Macclesfield 3766
	Miss F. A. Scrivens (53)	11, Northgate Avenue, Macclesfield	Macclesfield 2169
	Miss G.H. Robinson (54)	249, Peter Street, Macclesfield	Macclesfield 3321
	Miss E. Fairelough (55)	19, Nicholson Avenue, Macclesfield	Macclesfield 3322
	Mrs. D. Tomlinson (56)	Gledfield, 29, Gawsforth Road, Macclesfield	Macclesfield 2073
	Mrs. L. McHattie (56a)	8, Tytherington Drive, Macclesfield	Macclesfield 5565
Neston	Miss E. Lythgoe (8)	22, Hawkins Road, Neston, Wirral	Neston 1626
Northwich	Mrs. E. M. Thompson	19, Shipbrook Avenue, Rudheath, Northwich	Northwich 3192
	Miss A. Orme (24)	113, Granville Road, Leftwich, Northwich	Northwich 3025
Partington	Miss H. Lawrie (43)	37, Bucklow Avenue, Partington, Urmston, Manchester	Irlam 2274
Runcorn	Miss E. M. Grice (17a)	30, Heath Road Crescent, Runcorn	Runcorn 3602
	Miss E. Edwards (18)	30, Heath Road Crescent, Runcorn	Runcorn 3602
	Miss P. Noon (19)	10, Stanley Villas, Runcorn	Runcorn 2556
	Miss B. Smith (20)	21, Russell Road, Runcorn	Runcorn 2013
	Miss France		
Sale	Mrs. I. E. Thompson (36)	6, Lansdowne Road, Sale, Cheshire	Sale 1140
	Mrs. D. Lindley (38)	65, Derbyshire Road South, Sale	Sale 4383
Sandbach	Miss M. Beatty (45)	5, Coronation Crescent, Sandbach	Sandbach 731
Stalybridge	Miss Sowerbutts (58)	21, Shakespeare Avenue, Millbrook Stalybridge	Stalybridge 2151
	Miss N. Robinson (59)	6, Acres Lane, Stalybridge	Stalybridge 2821
	Mrs. F. Dent (60)	16, Ash Grove, Stalybridge	Stalybridge 2281
Stockton Heath	Mrs. J. M. Arthur (22)	15, Southern Street, Stockton Heath	Stockton Heath 74
Upton and Vicar's Cross	Mrs. E. McAllister (15)	73, Green Lane, Viar's Cross, Chester	Chester 35637
	Miss I. B. Jones (16)	18, Bache Avenue, Liverpool Road, Chester	Chester 21097
Weaverham	Miss J. Wolahan (23)	49, Wallerseote Road, Weaver- ham, Northwich	Weaverham 2116
Winsford	Mrs. M. Court (25)	117, Delamere Street, Over, Winsford	Winsford 2311

RELIEF MIDWIFE

Mrs. E. Horne	93, Moorhouse Avenue, Alsager, Stoke- on-Trent	Alsager 602
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COUNTY DENTAL NURSES (4)

Mrs. D. Comyn	Spring Villa, Upton Park, Chester.
Miss H. Howarth	700, Borough Road, Birkenhead
Mrs. M. A. Ramsbottom	26, Siddall Road, Bramhall, Stockport
Miss G. Rees	46, George's Crescent, Grappenhall, Warrington.

COUNTY DENTAL ATTENDANTS (21)

Miss W. M. Ashton	9, Gorse Hill Road, Heswall, Wirral
Miss M. Aspden	16, Jenny Lane, Woodford, Bramhall, Stockport
Mrs. J. B. Barlow	19, Boscombe Drive, Hazel Grove, Nr. Stockport
Miss J. Bartley	27, Tarvin Road, Chester.
Mrs. P. M. Boon	31, Trinity Place, Mossley, Congleton
Mrs. E. I. Cooke	250, Birch Lane, Dukinfield
Miss S. Cope	Broad Lane, Stapeley, Nantwich
Mrs. M. Cowsill	61, Hale Road, Hale, Altrincham
Miss D. Fellowes	14, Rosslyn Drive, Moreton, Wirral
Mrs. L. Holland	3, School Drive, Barnton, Northwich
Miss A. E. House	22, Devonshire Park Road, Stockport
Miss B. Jennings	1, Bodafon Villas, Whitchurch Road, Chester
Miss A. Kealey	The Ley, Winnington, Northwich.
Miss E. C. Kelly	9, Earney Street, Altrincham
Miss B. Lawrence	233, Chester Road, Hartford, Northwich, Cheshire
Mrs. I. M. Mercer	Nursery Cottage, Delamere Road, Nr. Frodsham
Mrs. L. P. Rees	86, Bond Street, Macclesfield.
Mrs. M. S. Robinson	45, Upton Drive, The Pache, Chester
Miss G. B. Shore	Heath Lea, Bunbury, Tarporley
Miss D. Smith	30, Willow Grove, Hoole, Chester.
Miss B. Young	10, Clarendon Road, Audenshaw, Lancs.

AUTHORISED OFFICERS FOR MENTAL HEALTH

No. and District	Name	Office	Residence
1 Wirral	E. M. Harbrow	218, Bebington Road, Bebington (Tel. Rock Ferry 1155)	239, Greenbank Road, West Kirby (Tel. Hoylake 3071).
2 West	L. A. R. Kingaby	55, Hoole Road, Chester (Tel. Chester 22299)	15, Durban Avenue, Christleton, Chester (Tel. Chester 35113).
3 Runcorn	F. Sterry	District Offices, Waterloo Road, Runcorn (Tel. Runcorn 2608)	12, Weston Crescent, Runcorn (Tel. Runcorn 2426)
4 Mid-Cheshire	E. Platt	Brunner Guildhall, High Street, Winsford (Tel. Winsford 3346)	Kensyd, Delamere Street, Winsford (Tel. Winsford 3352)
5 Nantwich	F. H. Mills	21, Pillory Street, Nantwich (Tel. Nantwich 65545)	Northwood, Millfields, Nantwich (Tel. Nantwich 65545).
6 Crewe & Sandbach	R. E. Broach	1, Gatefield Street, Crewe (Tel. Crewe 2478)	180, Crewe Road, Alsager (Tel. Alsager 174)
7 Altrincham & Sale	W. H. Driver	1, Claremont Road, Sale (Tel. Sale 2305)	32, Sefton Road, Sale (Tel. Sale 3408).
8 Bucklow & Wilmslow	R. Dixon	Bexton Road, Knutsford (Tel. Knutsford 506)	18, Stanley Road, Knutsford (Tel. Knutsford 506).
9 Macclesfield & Congleton	L. W. Lyon	11-13 Church Street, Macclesfield (Tel. Macclesfield 4908)	Ainsdale, Gawsworth Road, Maccles- field (Tel. Macclesfield 2976).
10 North-East	C. G. Owens	District Offices, 59b, Shaw Heath, Stockport (Tel. Stockport 4422)	Coniston, Goyt Crescent, Brinnington, Stockport (Tel. Stockport 3145).
11 Hyde & Stalybridge	J. Thompson	28, Pickford Lane, Dukinfield (Tel. Ashton 1128)	28, Pickford Lane, Dukinfield (Tel. Ashton 1128).

DAY NURSERIES

Altrincham M.B.	1, Gaskell Road (Tel. Altrincham 3621). <i>Matron</i> —Mrs. W. Helliwell
Bebington M.B.	The Bradmoor, Bromborough (Tel. Brom- <i>Matron</i> —Mrs. F. G. Davies borough 1381)
Congleton M.B.	Bradshaw House, Lawton Street (Tel. Congleton <i>Matron</i> —Mrs. H. E. Knight 282).
Dukinfield M.B.	Dewsnap Lane (Tel. Ashton-u-Lyne 3136). <i>Matron</i> —Mrs. C. J. Bell
Ellesmere Port M.B.	Whitby Road (Tel. Ellesmere Port 1357). <i>Matron</i> —Mrs. R. F. Chroston
Macclesfield M.B.	South Park, Poplar Road (Tel. Macclesfield 3751) <i>Matron</i> —Mrs. M. Dean
	1, Glegg Street (Tel. Macclesfield 2813). <i>Matron</i> —Miss R. A. Graham
	Nicholson Avenue, Hurdsfield (Tel. Maccles- <i>Matron</i> —Mrs. L. Potts field 4225)
Sale M.B.	Harley Road (Tel. Sale 4627). <i>Matron</i> —Mrs. E. Howitt
Bollington U.D.	Buntings Field, Wellington Road (Tel. Boll. <i>Matron</i> —Mrs. I. Helme 3294).
Bredbury & Romiley U.D.	Highfield Park Road, Bredbury (Tel. Woodley <i>Matron</i> —Mrs. E. Grice 2817).
Hazel Grove & Bramhall U.D.	Queen's Road, Hazel Grove (Tel. Stepping Hill <i>Matron</i> —Miss F. H. Dunn 2048)
Runcorn U.D.	Okell Street (Tel. Runcorn 2461). <i>Matron</i> —Mrs. M. Jones

WRENBURY HALL TUBERCULOSIS REHABILITATION CENTRE

Consultant Physician—A. Fleming, M.B., Ch.B., D.P.H.

Warden and Manager—L. T. Burton

MOTHERS' AND BABIES' HOME

Prospect House, 7, Trinity Road, Hoylake (Tel. Hoylake 1054).

Matron—Miss R. A. Barton

OCCUPATION CENTRES

Rigby Memorial School, Navigation Road, Altrincham.
(Tel. Altrincham 4977).

Supervisor—Mrs. D. M. Platt

Methodist Sunday School, Stockport Road, Gee Cross, Hyde (Tel. Hyde 1408)

Supervisor—Mrs. M. Coombes

33, Great King Street, Macclesfield (Tel. Macclesfield 3407)

Supervisor—Mrs. M. Cheadle

Methodist Sunday School, Hospital Street, Nantwich (Tel. Nantwich 65378)

Supervisor—Mrs. M. Hayes

St. Mark's School, School Lane, Grove Street, New Ferry
(Tel. Rock Ferry 1548)

Supervisor—Miss I. J. Young

CENTRAL OFFICE

County Hall, Chester (Tel. Chester 24678)

REPORT OF THE County Medical Officer of Health

For the Year ended December 31st, 1956

Section I.-Area and Population

Area

The acreage of the County at the end of 1956 was 621,825 acres.

Population

The population of the Administrative County, as constituted 1/4/56 and enumerated at the Census of 1951, was 815,884. The estimate of the Registrar-General for mid-1956 was 850,400.

Rateable Value

The rateable value of the Administrative County of Cheshire for General County Rate purposes at 1/4/56 was £9,791,802. A penny rate over the whole County for 1956-57 represented the sum of £39,634 (estimated.)

Health Service Premises

The following is a brief summary of the major works commenced or completed in the above year. In addition, many minor adaptations and improvements have been carried out at various buildings, and the normal programme of maintenance work has continued. A few additional pre-fabricated garages have been erected at Nurses' houses.

AMBULANCE DEPOTS

Ellesmere Port Ambulance Depot

Work completed

Runcorn Ambulance Depot

Work completed

WELFARE CENTRE

Marple Clinic Centre

Work completed

Section II.-Births and Deaths

The figures are for the Administrative County, 1956, unless otherwise stated.

Live Births :—

	Total.	Male	Female
Legitimate	12298	6279	6019
Illegitimate	443	213	230

Birth Rate per 1,000 of the estimated resident population, 14.98.

	Total.	Male	Female
Stillbirths	314	153	161

Stillbirths Rate per 1,000 total (live and still) births, 24.1.

	Total.	Male	Female
Deaths	10452	5319	5133

Death Rate per 1,000 of population, 12.3.

The principal causes of death were as follows:—

Disease.	No. of Deaths.	Rate per million population.
Heart Disease	3473	4084
Malignant Diseases	1722	2025
Vascular lesions of nervous system	1708	2008
Pneumonia	340	400
Tuberculosis (all forms)	106	125
Pulmonary	98	116
Non-Pulmonary	8	9
Nephritis	115	135
Bronchitis	534	628
Ulcer of Stomach and Duodenum	92	108

The deaths from the chief zymotic diseases were as follows :

Disease.	No. of Deaths.	Rate per million population.
Diphtheria	—	—
Whooping Cough	3	3.5
Measles	1	1.2
Gastritis, Diarrhoea and Enteritis	38	44.7

The zymotic Death Rate was 0.05 per 1,000.

The table below shows the trends in the causation of death at all ages since 1948.

Causes of Death 1948-1956 (all ages)

		1956	1955	1954	1953	1952	1951	1950	1949	1948
T.B.—Respiratory		98	75	96	93	124	149	165	222	240
—Other		8	15	17	11	22	32	30	44	41
Diphtheria		—	—	—	—	—	—	1	4	1
Whooping Cough		3	3	—	3	3	6	6	5	9
Measles		1	2	4	5	1	6	5	8	5
Malig. Stom. M.....	M	151	151	169	180	167	154	171	168	161
F.....	F	131	137	114	138	122	147	104	108	129
Lung Bronc. M.....	M	288	274	268	208	179	197	154	—	—
F.....	F	52	44	35	52	36	25	36	—	—
Breast		166	167	154	156	172	161	174	155	162
Uterus		82	78	78	86	85	66	82	69	81
Others M.....	M	442	442	425	404	414	466	472	—	—
F.....	F	410	410	399	378	378	369	335	—	—
Leukaemia		43	39	47	43	32	38	30	—	—
Diabetes		56	63	60	55	63	69	87	70	71
Vasc. Nervous Syst. M.....	M	669	701	671	588	628	614	551	—	—
F.....	F	1,039	913	938	859	855	892	743	—	—
Coronary M.....	M	1,053	918	904	816	789	793	717	—	—
F.....	F	548	497	430	415	441	427	370	—	—
Influenza		55	75	26	100	34	367	76	123	15
Pneumonia		340	334	296	261	291	462	234	274	272
Bronchitis		534	487	505	490	457	612	527	478	440
Peptic Ulcer		92	116	101	91	101	77	68	87	67
Nephritis		105	104	124	117	137	134	160	221	242
Motor Accidents		101	105	99	90	91	78	106	86	87
Other Accidents		205	183	202	178	159	170	158	—	—
Suicide M.....	M	64	41	54	53	59	48	57	53	44
F.....	F	41	40	51	26	29	38	35	29	24

Deaths in Middle Life.

It had previously been noticed in these Reports that whereas the deaths of females between the ages of 45 and 64 had decreased quite considerably during the last 20 years, those of males had not diminished in the same proportion so that the percentages of male deaths of the yearly totals between these ages had become much greater than those of females as shown in the following table.

Deaths in successive years between ages of 45 and 64.

Year	Pop. of Cheshire	Deaths of persons aged 45-64	Death rate per 1000 pop. ages 45-64	Males	Females	% male deaths in total	% female deaths in total	No. male deaths divided by No. female deaths
1920	625,137	1750	2.80	927	823	52.9	47.1	1.13
1925	645,900	1968	3.03	1066	902	54.3	45.7	1.18
1930	677,100	2055	3.04	1113	942	54.2	45.8	1.18
1935	702,200	2163	3.08	1165	998	53.9	46.1	1.17
1936	709,092	2289	3.23	1274	1015	55.6	44.4	1.25
1937	721,100	2422	3.36	1332	1090	55.0	45.0	1.22
1938	729,400	2315	3.16	1204	1111	52.0	48.0	1.08
1939	738,400	2332	3.16	1287	1045	55.2	44.8	1.23
1940	767,770	2756	3.59	1594	1162	57.8	42.2	1.37
1941	774,410	2482	3.21	1382	1100	55.7	44.3	1.26
1942	757,900	2168	2.86	1181	987	54.5	45.5	1.20
1943	740,930	2255	3.04	1237	1018	54.9	45.1	1.22
1944	736,980	2218	3.01	1223	995	55.1	44.9	1.23
1945	733,370	2339	3.19	1319	1020	56.4	43.6	1.29
1946	768,510	2315	3.02	1347	968	58.2	41.6	1.39
1947	778,230	2203	2.82	1305	898	59.2	40.8	1.45
1948	795,590	2112	2.65	1216	896	57.6	42.4	1.36
1949	801,790	2155	2.69	1252	903	58.1	41.9	1.39
1950	819,720	2244	2.74	1330	914	59.3	40.7	1.46
1951	822,800	2462	2.99	1492	970	60.6	39.4	1.54
1952	826,300	2225	2.69	1346	879	60.5	39.5	1.53
1953	831,700	2270	2.73	1369	941	60.3	39.7	1.52
1954	831,400	2305	2.77	1393	912	60.4	39.6	1.53
1955	840,200	2288	2.80	1393	895	60.9	39.1	1.56
1956	850,400	2492	2.93	1555	937	62.4	37.6	1.66

These figures refer to civilian population only, and show a constantly rising proportion of males to females, with four noticeable jumps in 1936, 1946, 1951 and 1956. The jump in 1946 was obviously at least partially due to the return of many men to civilian life with a correspondingly increased number of male deaths.

Over a period of approximately 20 months, the particulars of persons dying between the ages of 45 and 64 were extracted from the returns of the Registrars of Births, Marriages and Deaths.

Particulars of 3,987 persons were obtained in this way. These deaths were divided into five main categories:—those from coronary disease, from cancer of the lungs, bronchi and pleurae, from other cancers, from cerebral haemorrhage, thrombosis and embolism, and from other causes with the following result:—

Using the Classification of Occupations issued by the General Register Office, the deaths of males were then classified into the occupational groups. Group III was, however, divided into three sections, (a) Clerks, Shop Assistants, etc., (b) foremen and charge-hands, (c) manual workers.

See page 40

Classification of deaths according to occupational groups

Occupational Group	Deaths aged 45 to 64 (males only)					
	Coronary disease	Cancer of lungs etc.	Other cancers	Cerebral haemorrhages	Other causes	Total
I (professional etc.)	64	13	20	14	50	161
II (managers, farmers, shopkeepers etc.)	144	44	58	52	140	438
III (a) (clerks)	112	26	44	34	111	327
III(b) (foremen, charge-hands etc.)	45	19	29	8	36	137
III (c) (skilled industrial workers)	156	73	94	69	212	604
IV (semi skilled workers)	81	53	60	34	129	357
V (labourers)	100	33	45	43	156	377
Not stated	20	2	13	8	31	74

At the time of the 1951 census the percentages in Cheshire of employed males (over 16 years of age) in the several occupational groups was—Group I, 4.1%; Group II, 17.1%; Group III, 51.4%; Group IV, 13.6% and Group V, 13.8%.

Causes of death expressed as percentages of the total taking place in the several occupational groups

Occupation Group	Coronary disease	Cancer of lungs	Other cancers	Cerebral haemorrhage	Other causes
I (161 deaths)	39.8%	8.1%	12.4%	8.7%	31.3%
II (438 deaths)	32.9%	10.0%	13.2%	11.9%	32.0%
III (a) clerks, etc. (327 deaths)	34.3%	8.0%	13.5%	10.4%	33.9%
III (b) foremen, etc. (137 deaths)	32.8%	13.9%	21.2%	5.8%	26.3%
III (c) skilled manual workers (604 deaths)	25.8%	12.1%	15.6%	11.4%	35.1%
IV (357 deaths)	22.7%	14.8%	16.3%	9.5%	36.1%
V (377 deaths)	26.5%	8.8%	11.9%	11.4%	41.4%
Total deaths all groups (2401)	30.4%	11.0%	15.1%	10.9%	36.0%

The foregoing table shows clearly the higher proportion of male deaths from coronary disease in occupational groups I (professional etc.) and to a lesser degree in Group II, and clerks and foremen (included in group III) over manual workers. Deaths from lung cancer were highest in groups III (skilled workmen and foremen sub-groups) and particularly in IV (semi-skilled workmen).

Percentages of males in various occupational groups dying from the several causes of death

	Group I	Group II	Group III			Group IV	Group V	Group not stated	Total
			(a) clerks etc.	(b) foremen etc	(c) manual workers				
Coronary disease (722 deaths)	8.9%	19.9%	15.5%	6.2%	21.6%	11.2%	13.9%	2.8%	100%
Cancer of lungs (263 deaths)	4.9%	16.7%	9.8%	7.2%	27.8%	20.2%	12.5%	0.9%	100%
Other cancers (363 deaths)	5.5%	16.0%	12.1%	8.0%	25.9%	16.5%	12.4%	3.6%	100%
Cerebral haemorrhages, etc. (262 deaths)	5.3%	19.9%	13.0%	3.1%	26.3%	13.0%	16.4%	3.0%	100%
Other causes (865 deaths)	5.8%	16.2%	12.8%	4.2%	24.5%	14.9%	18.0%	3.6%	100%

Since, however, the numbers of males are so different in the several occupational groups, the picture becomes clearer if the comparison is made with reference to the same number of males in each group. The total number of males whose deaths are being investigated (omitting those whose occupational group is unknown) is 2401, so that the mean for each of the seven occupational groups used is 343. In the following table this mean divided by the number of deaths in each occupational group is used as a comparability factor:—

Deaths from various causes in each occupational group standardised by use of a comparability factor.

Mean for each occupational group:—343

Occupational Group	I	II	III(a)	III(b)	III(c)	IV	V
Total deaths in each group	161	438	327	137	604	357	377
Comparability factor	2.13	0.783	1.049	2.504	0.568	0.961	0.910
Coronary disease	136.32	112.75	117.49	112.68	88.58	77.84	91.00
Cancer of lung	27.69	34.45	27.27	47.58	41.46	50.93	30.03
Other cancer	42.60	45.31	46.16	72.62	53.37	57.66	40.95
Cerebral haemorrhage	29.82	40.72	35.67	20.03	40.09	32.67	39.13
Other causes	106.50	109.62	114.44	90.14	120.42	123.97	141.6

The following table gives the deaths from coronary disease and angina pectoris for the years 1950 to 1956. The Registrar General first issued statistics for coronary disease as a separate cause of death in 1950.

Deaths from coronary thrombosis in middle life

Year	Total deaths aged 45—64	Deaths from coronary disease ages 45—64	Percentage
1950	2244	339	15.1%
1951	2464	416	16.9%
1952	2225	372	16.7%
1953	2270	401	17.7%
1954	2305	455	19.7%
1955	2288	407	17.8%
1956	2492	558	22.4%

Observations

- (i) The percentage of male deaths amongst persons dying in later middle life is now over 62%.
- (ii) This percentage has risen steadily throughout the last twenty years and is still rising.
- (iii) Two causes of death, coronary thrombosis and lung cancer, account for approximately three-quarters of this excess of deaths amongst males.

- (iv) Almost four times as many males die from coronary thrombosis in late middle life as females, and more than seven times the number of males as females die from lung cancer in that age group.
- (v) Coronary thrombosis is by far the commonest single cause of death amongst males at these ages and accounts for approximately two-sevenths of male deaths between 45 and 64.
- (vi) A greater proportion of males in the occupational groups I and II, and of foremen and clerical, etc. workers in group III, die from coronary thrombosis than in the other occupational groups.
- (vii) The proportion of deaths from coronary thrombosis is increasing year by year.

following tables should follow line 8 on page 37

Classification of causes of death according to sex

	Deaths between 45 and 64					Total
	Coronary disease	Cancer of lung	Other cancers	Cerebral haemorrhages	Other causes	
Males	722	263	363	262	865	2475
Females	185	36	464	268	559	1512
Total	907	299	827	530	1424	3987

Classification according to cause, sex and age at death.

Age Group	Deaths between 45 and 64					Total
	Coronary disease	Cancer of lung	Other cancers	Cerebral haemorrhages	Other causes	
45—49						
Males	80	42	32	23	99	276
Females	17	3	79	29	93	221
50—54						
Males	146	60	67	46	168	487
Females	27	6	115	52	95	295
55—59						
Males	215	79	125	77	255	751
Females	53	12	119	77	134	395
60—64						
Males	281	82	139	116	343	961
Females	88	15	110	110	237	601
Total	907	299	530	530	1424	3987

These tables indicate—

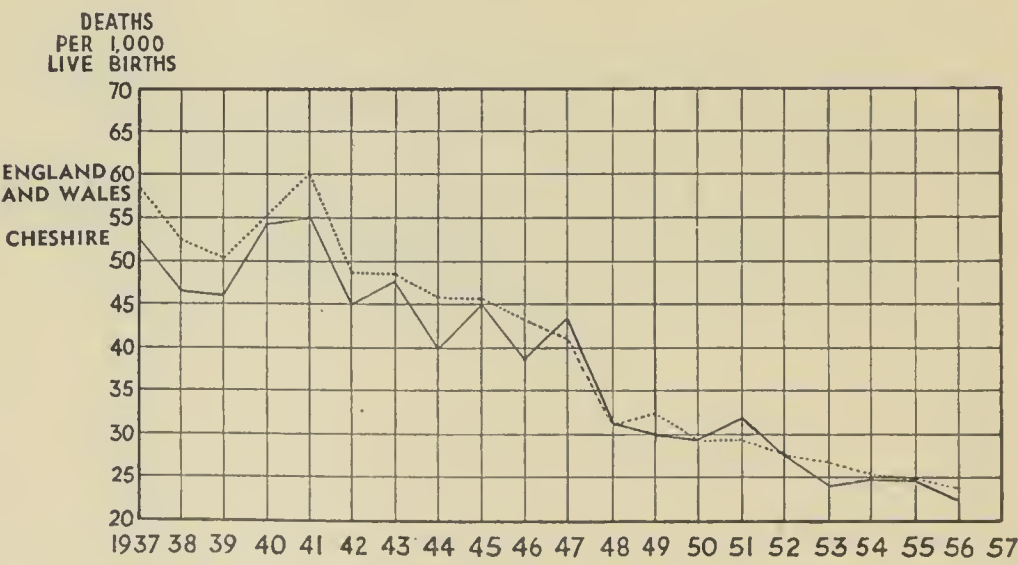
- (a) the great predominance of males over females in late middle life so far as deaths from coronary disease and lung cancer are concerned,
- (b) the increased incidence of cancers other than of the lung, in women compared with men below 55 years of age, is largely made up of cancers of the breast and uterus.

Infantile Mortality:—

	Under 1 year	Under 4 weeks
Deaths of Infants in the Administrative County during 1956	286	201
Legitimate	279	196
Illegitimate	7	5
All Infants per 1,000 live births	22.5	15.8
Legitimate Infants per 1,000 legitimate live births	22.7	15.9
Illegitimate Infants per 1,000 illegitimate live births	15.8	11.3

The figures for deaths under one year in recent years are shown in the following diagram :—

INFANTILE MORTALITY



Deaths from Puerperal Causes :—

	Deaths.	Rate per 1,000 total (live and still) births.
Pregnancy, Childbirth, Abortion	8	0.61

Section III.-Vaccination and Immunisation

Under Section 26 of the National Health Service Act, 1946, the County Council has the duty of making available a full service of vaccination against smallpox and of immunisation against diphtheria; the organisation and management of the scheme has been devolved upon the Divisional Health Committees. Immunisation is also provided against whooping cough.

It is hoped that the attention now devoted to Health Services in general, and to this aspect in particular, will result in a considerable increase in vaccination, just as it has served to secure a wide response to the offer of immunisation. Immunisation is, in practice, meant for children, with particular attention to those under 5, but vaccination may on occasion be sought by persons of any age, and a recent amendment of the County Scheme has provided for this.

Arrangements made under the Council's scheme include participation by general practitioners and sessions at clinics.

During the year 1956, the number of persons vaccinated was as follows:—

	<i>Vaccinated</i>	<i>Re-Vaccinated</i>
Under 1 year	4417	14
Age 1 year	822	1
Age 2—4 years	255	46
Age 5—14	275	207
Age 15 years and over	331	940

During the same period the number of children notified as having completed a full course of primary immunisation against diphtheria was as follows:—

Children under 1 year	3998
Children 1—4 years	3706
Children 5—14 years	822
Total	8526

Total number of children who were
given a secondary or reinforcing
injection

5586

It is unfortunate that not all immunisations carried out are notified to the Local Health Authority and the above figures are therefore not complete.

The number of children at 31st December, 1956, who had completed a full course of immunisation against diphtheria at any time before that date was as follows:—

		<i>Last complete course of injections (whether primary or booster)</i>	
<i>Born in Year</i>		1952—56	1951 or earlier
1956	1808	—	
1952—55	28864	—	
1947—51	31250		22539
1942—46	16529		32804
<hr/>		<hr/>	
Totals	1942—56	78451	55343
<hr/>		<hr/>	

The estimated mid-year child population for the year 1956 was as follows:—

Under 1 year	12300
1—4 years	48200
5—14 years	129900
<hr/>	
Total under 15 years	190400
<hr/>	

During the year 1956 the number of children who completed a full course of immunisation against whooping cough was as follows:—

Under 1 year	4057
Age 1—4 years	3715
Age 5—14 years	583
<hr/>	
Total	8355
<hr/>	

The scheme was further extended in March, 1956 to include vaccination or immunisation against any other disease authorised by the Minister of Health. Approval was given by the Minister to the vaccination of children against poliomyelitis.

In 1956, 35,417 children born between 1st January, 1947 and 31st December, 1956, were registered for vaccination against poliomyelitis (about 35% of the child population in this age group). The number of children receiving injections was 4,053, of whom 3,879 received the complete vaccination of two injections.

Section IV.-Ambulance Service

The County Council is charged with the duty, under Section 27 of the National Health Service Act, 1946, to provide a comprehensive ambulance service throughout the County, free of charge to persons carried; the duty includes transport by car of persons who are unfit for public transport but do not need to be recumbent. The service is one which has been devolved for organisation and management within the approved estimates to Divisional Health Committees through-out the County.

Arrangements are made to pay for the agency use of some Red Cross and St. John vehicles. In addition, there is a supplementary arrangement with the Voluntary Car service which, originally organised during the war, had been continued and paid for up to 5/7/48 by hospital authorities. Taxis and hired cars are also used as a supplementary service.

During 1956, delivery was taken of two Bedford Lomas ambulances, and seventeen Bedford Lomas Sitting case ambulances which were ordered at the end of 1955 and orders were placed for 6 ambulances and 13 Sitting case ambulances for delivery in 1957.

The arrangements by which the County Boroughs of Chester, Stockport, and Warrington, and the Counties of Shropshire and Derbyshire provided an Ambulance Service in particular areas, or for special purposes, were continued, as was the arrangement whereby the County Borough of Liverpool and the County of Lancashire convey smallpox patients or others needing special disinfection. On the other hand Cheshire supplies the night-time service for the Glossop area of Derbyshire.

For long distance journeys, use is made of the service provided by the Railway Executive for invalids, which comprises, for a small fee, a reserved compartment without payment of fares other than for the persons actually travelling. There are special arrangements for casual use, at an agreed fee, of other Authorities' ambulances, either at the far end of such a railway journey, or to meet special emergencies, and help is similarly given to other ambulance authorities.

The whole-time ambulance staff now approved consists of the following:—

Supervisors.....	10
Senior Drivers and Mechanics	15
Driver Attendants	159
Others	3

The following schedule shews the work done by the service for the financial year 1956—7:—

ITEM (1)	Directly Provided Service (2)				Supplementary Service (including Hospital Car Service). (3)				Transport by Rail (4)
	Amb.	S.C.A.	S.C.C.	Total	Amb.	S.C.A.	S.C.C.	Total	
1. No. of persons carried (excluding relatives, escorts and friends)									
(a) Section 27 patients									
(i) Accident or Emergency	11,220	2,207	269	13,696	715	207	12	934	—
(ii) Others	87,247	61,322	37,778	186,347	1,402	3,289	6,345	11,036	64
(iii) Total of (i) and (ii)	98,467	63,529	38,047	200,043	2,117	3,496	6,357	11,970	64
(b) Other persons, e.g. persons taken to day nurseries, welfare institutions, occupational centres, L.H.A. clinics, special schools, etc.	3,437	795	497	4,729	—	22	261	283	—
(c) Grand total i.e. (a) (iii) and (b)	101,904	64,324	38,544	204,772	2,117	3,518	6,618	12,253	64
2. No. of journeys by vehicles									
(a) Patient carrying journeys	38,928	21,342	10,045	70,315	1,292	1,195	4,064	6,551	—
(b) Abortive and service journeys	952	325	408	1,685	29	6	12	47	—
(c) Journeys for transport of analgesia apparatus, midwives, home nurses, etc.	109	316	376	801	1	—	—	1	—
(d) Total of (a) (b) and (c)	39,989	21,983	10,829	72,801	1,322	1,201	4,076	6,599	—
3. Total mileage (incl. that in respect of 1 (b))	664,315	521,811	304,313	1,490,439	16,719	41,353	95,835	153,907	9,220

No. of operational vehicles on establishment at 31st March, 1957:—

Population of service area	847,370*
Acreeage of service area	619,617*
No. of ambulance stations—	
Directly provided service	17
Ambulances	46
Sitting case vehicles	40

*Excludes Disley R.D. served wholly by Derbyshire C.C.

Section V.-Prevention of Illness, Care and After-care

General

Section 28 of the National Health Service Act, 1946, gives permissive powers to the County Council to make a scheme for prevention of illness, and for the care and after-care of persons suffering from illness. The County Council has a duty to make detailed arrangements for any disease the Ministry may specify. In this connexion, tuberculosis has been so specified, and much of the work, other than clinic and institutional provision, which was carried out for many years under the County Tuberculosis Scheme, is being continued under the new powers.

The arrangements under this section of the Act are among those which for organisation and management, within the approved estimates, have been devolved to Divisional Health Committees.

Tuberculosis

Consultant Chest Physicians, the main part of whose work at chest clinics passed to the Regional Hospital Boards on the appointed day, are part-time officers of the County Council, and give Divisional Medical Officers all necessary advice in the sphere of care and after-care; Health Visitors pay home visits to tuberculosis patients and help to secure the attendance of contacts at the clinics. The loan of large items such as garden shelters and the supply of smaller items such as sputum flasks, now form part of the general scheme for the provision of nursing equipment, of which details are given later.

Wrenbury Hall Industrial Training Colony has continued under the full ownership and control of the County Council, and arrangements are being made for considerably extending the scope of the training given. During the year 1956, some 14 Cheshire trainees were admitted for industrial rehabilitation, and 26 from other local authorities. There are at present 26 colonists living in the hostel, of whom 9 are married, and 6 married colonists living with their families in cottages on the estate.

The following tables will enable a comparison to be made between 1956 and previous years in respect of the incidence of, and mortality due to, tuberculosis.

Tuberculosis Statistics

	1956	1955	1954
New cases notified (primary)			
Pulmonary	392	431	371
New cases notified (primary)			
Non-pulmonary	68	74	87
Total	<u>460</u>	<u>505</u>	<u>458</u>

No. of cases remaining on Registers of Notifications kept by District M.O's.H., December 31st	5392	5247	5168
No. of Deaths from all forms of Tuberculosis	106	90	113
Death-rate from all forms of Tuberculosis per 1,000 of the population	0.12	0.11	0.13

Table relating to Tuberculosis in children under 16 :—

Year	Number of Children notified as suffering from Pulmonary Tuberculosis	Number of Children notified as suffering from Non- Pulmonary Tuberculosis	Percentage of Total Notifications	
			Pulmonary	Non- Pulmonary
1947	20	121	4.3	62.1
1948	24	101	5.4	63.9
1949	21	73	4.8	59.3
1950	24	59	5.2	48.8
1951	30	63	6.9	55.3
1952	56	62	12.5	52.1
1953	55	45	12.7	55.6
1954	46	54	12.4	62.1
1955	45	38	10.4	51.3
1956	40	30	10.2	44.1

Table showing primary notifications and deaths from Tuberculosis during past 30 years:—

Year	Primary notifications	Deaths	Death rate per 1,000 population
1927	892	488	.73
1928	932	499	.74
1929	917	465	.69
1930	838	438	.64
1931	802	438	.64
1932	751	460	.66
1933	754	389	.57
1934	765	377	.54
1935	739	367	.52
1936	752	348	.49
1937	799	373	.52
1938	802	360	.49
1939	709	358	.48
1940	674	403	.52
1941	740	402	.52
1942	713	302	.40
1943	685	339	.46
1944	734	332	.45
1945	669	302	.41
1946	510	310	.40
1947	655	296	.38
1948	601	279	.35
1949	565	266	.33
1950	582	195	.24
1951	546	181	.22
1952	568	146	.18
1953	514	104	.12
1954	458	113	.13
1955	505	90	.11
1956	460	106	.12

The 1956 deaths are made up as follows :—

	Male	Female	Total
Pulmonary	69	29	98
Non-Pulmonary	8	—	8
	<hr/> 77	<hr/> 29	<hr/> 106

Death Rates, 1956—

All forms	.125	per 1000 of population
Pulmonary	.115	per 1000 of population
Non-Pulmonary	.01	per 1000 of population

Contacts.

During the year 1956, approximately 2,965 contacts of tuberculous patients were examined by Chest Physicians, with the co-operation of the health visitors, who visited their homes whenever necessary. Particulars were sent as usual to the Physicians of all tuberculosis deaths (whether of notified or unnotified cases) to assist in arrangements for contact examination.

Mass Miniature Radiography

During 1956, the following surveys by Mass Miniature Radiography Units were completed:—

Liverpool Unit—

Ellesmere Port and Bromborough January to June

Manchester Unit—

Crewe and District	March to October
Sandbach	November

The following table gives the number of examinations made, and details of the abnormalities detected:—

	Ellesmere Port & Bromborough	Crewe & district	Sandbach
Number of miniature examinations	9,181	25,110	4,729
Total number of abnormalities detected	60	519	81
Types of abnormalities detected:—			
(a) Active tuberculosis	5	55	12
(b) Inactive tuberculosis	17	172	27
(c) Bronchiectasis	12	66	5
(d) Cardiac abnormalities	10	38	14
(e) Other conditions	16	188	23

The opportunity was taken during these visits to arrange for the nursing, teaching, and children's department staff in the districts concerned to be examined on a voluntary basis. Mantoux positive children tested for B.C.G. Vaccination were also examined.

Summary of Notifications during the period from the 1st January, 1956, to the 31st December, 1956.

PART I.—

FORMAL NOTIFICATIONS

Number of Primary Notifications of new cases of tuberculosis														
Age Periods	0-	1-	2-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75-	Total (all ages)
Respiratory, Males	—	1	5	5	8	21	19	42	34	43	29	17	4	228
„ Females	1	1	4	7	8	14	34	38	21	21	8	6	1	164
Non-respiratory, Males	—	—	2	9	6	3	3	5	2	1	4	—	—	35
„ Females	—	—	2	5	6	6	5	2	2	4	—	1	—	33

PART II.—New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification.

Source of Information	Number of cases in age Groups													TOTAL
	0—	1—	2—	5—	10—	15—	20—	25—	35—	45—	55—	65—	75—	
Death Returns from Local Registrars—	Respiratory M	—	—	—	—	—	—	—	1	—	5	6	—	12 (A)
	F	—	—	—	—	—	—	—	1	1	1	2	—	5 (B)
	Non-Respiratory M	—	—	—	—	—	—	—	—	—	—	—	—	— (C)
	F	—	—	—	—	1	—	—	—	—	—	—	—	1 (D)
Death Returns from Registrar-General (Transferable deaths)	Respiratory M	—	—	—	—	—	—	—	—	2	1	3	—	6 (A)
	F	—	—	—	—	—	—	—	2	1	1	—	—	4 (B)
	Non-Respiratory M	—	—	—	—	—	—	—	1	—	—	—	—	1 (C)
	F	—	—	—	—	—	—	—	—	—	—	—	—	— (D)
Posthumous Notifications	Respiratory M	—	—	—	—	—	—	—	—	—	—	—	—	— (A)
	F	—	—	—	—	—	—	1	—	—	—	1	—	2 (B)
	Non-Respiratory M	—	—	—	—	—	—	—	—	—	—	—	—	— (C)
	F	—	—	—	—	—	—	—	—	—	—	—	—	— (D)
TOTALS														18
														11
														1
														1

B.C.G.

The County Council's proposals under Section 28 of the National Health Service Act, 1946, for B.C.G. vaccination of contacts of tuberculous persons were approved by the Minister on 24th October, 1949. They provided for B.C.G. vaccination, by and at the instance of a physician with specialist knowledge and experience of tuberculosis, of contacts of patients suffering from tuberculosis, such contacts being found by medical tests to be capable of receiving protection from tuberculosis as a result of B.C.G. vaccination. In May, 1954 approval was given by the Ministry of Health to the Scheme being extended to provide for the B.C.G. Vaccination of children between 13 and 14 years of age.

In the first place those physicians with specialist knowledge and experience of tuberculosis were the chest physicians employed by the Regional Hospital Board, towards whose salary the County Council pays a specified proportion. All Divisional Medical Officers and four Assistant County Medical Officers have received instruction in the technique and methods of B.C.G. vaccination and have been approved for this purpose.

During 1956, the chest physicians vaccinated 621 cases, and the Divisional Medical Officers vaccinated 203 cases, under the contact scheme. In addition to these, certain new-born infants were vaccinated at St. Mary's Hospital, Manchester, through special arrangements made by the Professor of Child Health at Manchester University, and during the year, some 118 babies born to Cheshire mothers were thus vaccinated. Special arrangements have been made at Clatterbridge Hospital whereby newly born children of tuberculous parents can be transferred for post-vaccination segregation to a convalescent home maintained in connection with the Hospital.

Divisional Medical Officers and Assistant County Medical Officers vaccinated 5060 school children during the year and details of the work carried out under the scheme for school children are as follows:—

Before B.C.G. Vaccination

No. of consent forms issued	10412
No. of children for whom consents received	7688
No. of patch tests by tuberculin jelly	3352
No. positive to patch test	776
No. Mantoux tested	6730
No. positive to Mantoux test	1357
<i>No. Vaccinated by B.C.G.</i>	5060

After B.C.G. Vaccination

No. having follow-up Mantoux (8 weeks)	3945
No. positive to follow-up Mantoux (8 weeks)	3665
No. negative to follow-up	248
No. having follow-up Mantoux (12 months)	3501
No. positive to follow-up Mantoux (12 months)	3242
No. negative to follow-up	94
No. re-vaccinated	5

Mental Illness

The care and supervision of patients at home suffering from mental illness or defect is carried out by Health Visitors and Authorised Officers, and arrangements are made, in suitable cases, for help to be given by other County services, such as Home Nursing and Domestic Help.

Other Illnesses

Liaison has been continued with the Almoners and other appropriate officials of general hospitals so that discharged patients requiring help from any of the County Health Services may secure it without delay.

Another aspect of "care" is the investigation of "problem families" with a view to effecting any possible improvement and granting any appropriate help.

An important aspect of "prevention of illness" is health education, and appropriate publicity under this heading is carried out locally.

Nursing Equipment

Stocks of nursing equipment are held by District Nurses and by Divisional Medical Officers for loan to patients needing them, subject to a small deposit charge, and a weekly hire payment in the case of the more expensive items. Examples of the small items normally kept by District Nurses are urinals, hot water bottles, bed pans, feeding cups, sputum flasks, steam kettles, air rings and back rests; the larger items stored by the Divisional Medical Officers include crutches, bath chairs, spinal carriages and water beds.

Shelters for the use of tuberculosis patients are issued by the County Medical Officer and transferred by the County Surveyor's Department, in accordance with recommendations made by the Chest Physicians, and confirmed, after investigation of the site, by the Divisional Medical Officer. Bedding is also kept for issue in special cases, *e.g.*, when a patient's small stock has to be taken away for disinfection or disinfestation, or to provide for house isolation of patients.

Recuperative Convalescence

During the year 1956, 60 patients were sent for recuperative convalescence for periods varying between two and eight weeks. Contributions were paid by the patients towards the cost of this convalescence in accordance with the County scale. Also under Section 28, six mentally defective children were found accommodation for short periods during the year,

Sitters-In

Facilities exist to supplement, in specially approved cases, the Domestic Help service by means of night sitters-in. In 1956 sitters-in were provided for nine cases.

Infectious Disease

In order that Divisional Health Committees may have a continuous picture of the incidence of infectious disease in their areas, Divisional Offices receive full particulars of notified cases, and the County Council repays to District Councils, in accordance with the National Health Service Act, the notification fees paid to doctors. The following table gives the number of cases notified under the various headings during the year 1956.

	Scarlet Fever	Whooping Cough	Acute Poliomyelitis Paralytic	Acute Poliomyelitis Non-Paralytic	Measles (excluding Rubella)	Diphtheria	Acute Pneumonia	Dysentery	Smallpox	Acute Encephalitis Infective
Altrincham M.B.	27	45	6	8	73	—	11	—	—	—
Bebington M.B.	18	151	8	4	257	—	16	33	—	—
Congleton M.B.	23	25	—	—	19	—	17	—	—	—
Crewe M.B.	35	120	1	—	438	—	1	11	—	—
Dukinfield M.B.	4	31	1	3	2	—	16	11	—	—
Ellesmere Port M.B.	50	156	—	1	298	—	12	17	—	—
Hyde M.B.	93	6	1	—	4	—	31	—	—	—
Macclesfield M.B.	33	49	19	5	101	—	19	1	—	—
Sale M.B.	23	72	6	11	243	—	13	49	—	—
Stalybridge M.B.	8	78	1	1	3	—	3	3	—	—
Alderley Edge U.D.	—	5	—	—	1	—	1	—	—	—
Alsager U.D.	—	9	—	—	8	—	1	—	—	—
Bollington U.D.	3	14	2	—	1	—	1	—	—	—
Bowdon U.D.	—	9	1	—	5	—	—	8	—	—
Bred. and Rom. U.D.	29	29	1	—	8	—	4	1	—	—
Cheadle and Gatley U.D.	47	91	3	2	127	—	9	1	—	—
Hale U.D.	3	17	3	—	41	—	—	—	—	—
Hazel Grove and Bramhall U.D.	31	8	—	4	57	—	—	—	—	—
Hoylake U.D.	32	78	—	—	215	—	19	1	—	—
Knutsford U.D.	3	—	—	—	87	—	—	—	—	—
Longdendale U.D.	1	1	—	2	—	—	—	45	—	—
Lymm U.D.	4	—	1	—	1	—	1	—	—	—
Marple U.D.	23	32	1	4	3	—	1	—	—	—
Middlewich U.D.	—	—	—	—	—	—	—	—	—	—
Nantwich U.D.	3	67	—	—	3	—	1	1	—	—
Neston U.D.	10	46	1	—	92	—	30	22	—	—
Northwich U.D.	6	22	1	2	191	—	7	—	—	—
Runcorn U.D.	47	155	1	—	258	—	4	—	—	—
Sandbach U.D.	5	2	—	—	8	—	—	—	—	—
Wilmslow U.D.	3	17	2	—	3	—	4	4	—	—
Winsford U.D.	4	1	—	—	2	—	—	4	—	—
Wirral U.D.	1	58	2	1	236	—	7	10	—	—
Bucklow R.D.	—	28	2	4	98	—	3	—	—	—
Chester R.D.	21	55	1	1	21	—	13	13	—	1
Congleton R.D.	24	37	—	—	10	—	9	—	—	—
Disley R.D.	6	3	—	—	—	—	—	—	—	—
Macclesfield R.D.	12	45	5	3	10	—	14	—	—	—
Nantwich R.D.	40	100	—	—	118	—	22	3	—	—
Northwich R.D.	18	62	3	—	112	—	3	1	—	—
Runcorn R.D.	28	104	2	—	34	—	11	—	—	—
Tarvin R.D.	15	49	—	—	30	—	28	1	—	—
Tintwistle R.D.	—	—	—	—	—	—	—	4	—	—
TOTAL	733	1877	75	56	3,218	—	332	244	—	1

	Acute Encephalitis Post Infectious	Enteric or Typhoid Fever	Paratyphoid Fever	Erysipelas	Meningococcal Infection	Food Poisoning	Tuberculosis Respiratory	Tuberculosis Meninges and C.N.S.	Tuberculosis Other	Puerperal Pyrexia	Ophthalmia Neonatorum
Altrincham M.B.	—	—	—	11	—	1	9	—	4	1	—
Bebington M.B.	—	—	1	14	4	11	44	—	3	1	—
Congleton M.B.	—	—	—	2	—	—	12	—	—	1	—
Crewe M.B.	—	—	—	2	1	1	44	—	3	1	1
Dukinfield M.B.	—	—	—	—	—	3	10	—	—	—	—
Ellesmere Port M.B.	—	—	2	6	—	—	10	—	3	2	—
Hyde M.B.	—	—	—	8	2	1	13	—	4	—	—
Macclesfield M.B.	—	—	—	3	—	2	16	—	—	20	—
Sale M.B.	—	—	—	2	—	—	32	1	3	2	—
Stalybridge M.B.	—	—	—	1	—	3	12	—	3	—	—
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Alderley Edge U.D.	—	—	—	—	—	—	4	—	—	—	—
Alsager U.D.	—	—	—	2	—	—	4	—	2	—	—
Bollington U.D.	—	—	—	—	—	—	1	—	—	—	—
Bowdon U.D.	—	—	—	1	—	—	—	—	—	—	—
Bred. and Rom. U.D.	—	—	—	1	—	1	11	—	1	—	—
Cheadle and Gatley U.D.	—	—	—	—	—	1	10	—	4	—	—
Hale U.D.	—	—	—	2	—	—	2	—	1	—	—
Hazel Grove and Bramhall U.D.	—	1	—	1	—	—	2	1	1	—	—
Hoyle U.D.	—	—	—	5	—	6	20	—	4	—	—
Knutsford U.D.	—	—	—	—	—	—	3	—	—	—	—
Longdendale U.D.	—	—	—	—	—	—	2	—	1	1	—
Lymm U.D.	—	—	—	—	—	—	3	—	—	—	—
Marple U.D.	—	—	—	1	—	—	3	—	—	—	—
Middlewich U.D.	—	—	—	—	—	—	2	—	—	—	—
Nantwich U.D.	—	—	—	—	—	—	6	—	1	13	—
Neston U.D.	1	—	—	—	—	—	3	—	1	—	—
Northwich U.D.	—	—	—	1	—	—	3	—	—	—	—
Runcorn U.D.	—	—	—	1	—	—	4	—	—	—	—
Sandbach U.D.	1	—	—	—	—	—	4	—	—	—	—
Wilmslow U.D.	—	—	—	—	—	—	5	—	—	—	—
Winsford U.D.	—	—	—	1	—	—	7	—	—	—	—
Wirral U.D.	—	—	—	—	—	—	13	—	1	1	—
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Bucklow R.D.	—	—	—	—	—	1	5	—	—	—	—
Chester R.D.	—	—	1	3	—	4	13	1	3	—	—
Congleton R.D.	—	—	—	1	—	—	4	—	1	—	—
Disley R.D.	—	—	—	—	—	—	—	—	1	—	—
Macclesfield R.D.	—	—	—	5	—	—	12	—	1	—	—
Nantwich R.D.	—	—	—	—	—	—	8	—	2	4	—
Northwich R.D.	—	—	—	1	—	—	16	—	12	—	—
Runcorn R.D.	1	—	—	—	—	4	17	1	3	—	—
Tarvin R.D.	—	—	—	—	—	—	3	—	1	1	—
Tintwistle R.D.	—	—	—	—	—	—	—	—	—	—	—
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TOTAL	3	1	4	75	7	39	392	4	64	48	1

The following Table shows the variation in notifications of the principal Infectious Diseases during the past ten years:—

Notifications	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947
Measles	3218	10450	6361	7537	9594	9491	6512	6589	6741	8029
Scarlet Fever	733	688	1033	1232	1223	1007	1666	1695	1228	885
Whooping Cough	1877	1210	1368	3080	2420	2144	2824	2216	2936	1239
Poliomyelitis	131	57	29	53	41	40	83	99	30	145
Diphtheria	0	0	1	6	1	8	15	35	86	65
Smallpox	0	0	0	0	0	0	0	0	0	0
Tuberculosis:—										
Pulmonary, all ages	392	431	393	433	449	432	461	442	443	460
Non-pulmonary, all ages	68	74	87	81	119	114	121	123	158	195
Pulmonary, Children under 15	40	45	46	55	56	30	24	21	24	20
Non-pulmonary, Children under 15	30	38	54	45	62	63	59	73	101	121

Section VI.-Mothers and Young Children Health Visiting, etc.

General

The County Council's responsibilities under Sections 22 and 24 of the National Health Service Act, 1946, are in the main a continuation of work which has been done for many years, though the Health Visitors' services are now used to carry out the Council's schemes for mental health, after-care, and handicapped persons.

Number of Health Visitors employed—31.12.1956	—	—	—	104
Equivalent whole-time H.V. Services provided	—	—	—	72·8

Number of visits paid by Health Visitors during the year.

Number of children under 5 years of age	—	—	—	—	65,368
Expectant Mothers—					
First Visits	—	—	—	—	4,243
Total Visits	—	—	—	—	7,370
Children under one year of age—					
First Visits	—	—	—	—	14,151
Total Visits	—	—	—	—	90,192
Children aged 1 and under 2 years—					
Total Visits	—	—	—	—	47,492
Children aged 2 but under 5 years—					
Total Visits	—	—	—	—	82,027
Tuberculosis Households—					
Total Visits	—	—	—	—	7,784
Other cases—					
Total visits	—	—	—	—	29,677
Total number of households or families visited	—	—	—	—	64,119

Premature Infants

Particular attention is devoted to babies weighing 5½ lbs. or less at birth, and special cots with bedding, hot water bottles, etc., are kept in readiness. 840 premature live babies were born in the year under review, whose mothers normally live in the Authority's area, 204 at home and 636 in hospitals or nursing homes.

Puerperal Pyrexia

48 cases of Puerperal Pyrexia were notified during the year, 9 being domiciliary and 39 institutional confinements.

Maternal Mortality

The maternal mortality for 1956, *i.e.*, number of deaths due to pregnancy, childbirth or abortion, per 1,000 live and still births, was 0.61.

Ante-Natal and Post-Natal Clinics

The number of Ante-Natal clinics conducted by Doctors was 19. The Regional Hospital Boards pay for a proportion of the sessions attended by specialist obstetricians. In some areas there are other doctors' clinics, and in some districts midwives' clinics have been established. In one area a General Practitioner conducts his own Ante-Natal clinic at a County Clinic Centre.

The following Tables give particulars of County clinics held during 1956:—

Doctors' Clinics

	ANTE-NATAL			POST-NATAL		
	Sessions	Attend- ances	New Cases	Sessions	Attend- ances	New Cases
Altrincham†	21	155	60			
Bebington	101	1139	170	*46	67	44
Bredbury	49	380	134			
Cheadle	50	1324	287			
Congleton	50	403	70			
Ellesmere Port§	113	3081	503	*82	167	159
Hazel Grove	51	742	219			
Heswall	52	851	54			
Hoylake	53	1280	168			
Hyde†	32	603	141			
Macclesfield†	47	795	269			
Neston	49	673	61			
Northwich	49	478	152			
Runcorn	50	630	153			
Sale	51	852	190	*3	4	3
Stalybridge	26	165	47	*7	24	20

† Non-Specialist. ‡ at 3 Centres. § at 2 Centres.

* Joint ante- and post-natal sessions.

Midwives Clinics

	ANTE-NATAL		
	Sessions	Attendances	New Cases
Bollington	48	172	57
Bredbury	44	266	48
Cheadle	46	373	104
Crewe			
Ludford Street	100	845	201
Stalbridge Road	50	307	53
Dukinfield	49	876	133
Hollingworth	51	131	32
Hoylake	51	114	49
Knutsford	9	4	—
Little Sutton	48	387	73
Lymm	51	181	31
Nantwich	51	181	31
Neston	21	101	20
Poynton	17	85	33
Sandbach	46	298	61
Stalybridge (Millbrook)	46	321	74
Stockton Heath	46	103	26
Weaverham	49	420	73
Winsford	50	238	57

Preparation Classes

	ANTE-NATAL		
	Sessions	Attendances	New Cases
Alsager	2	8	5
Cheadle	43	609	54
Dukinfield	17	291	74
Hazel Grove	45	358	—
Heswall	44	437	46
Hoylake	48	960	86
Hyde	48	545	109
Little Sutton	44	654	109
Neston	49	475	22
Northwich	17	284	46
Romiley	44	262	27
Runcorn	39	155	23
Sale	54	259	37
Sandbach	44	342	44
Stalybridge	34	122	32

Notification of Births

The distribution of the births to Cheshire mothers notified under the Public Health Act, 1936, was as follows :—

Domiciliary	Nursing Homes	Hospitals
4081	409	8133

Dental Care

Increasing importance is now attached to the provision of Dental services for expectant and nursing mothers, and for young children. Facilities will be extended as opportunity offers, subject to the availability of necessary staff.

DENTAL REPORT

Mothers and young children are dealt with during School Dental clinic sessions.

All necessary treatment is carried out, if necessary with local or general anaesthetic.

All dentures are set up by a mechanic, and impressions and fittings carried out by the dental surgeon.

One clinic possesses an X-Ray apparatus, and for other clinics, arrangements are made with the local hospital.

The following details show the work done during the year 1956:—

	Expectant Mothers	Nursing Mothers	Children under 5 years
<i>(a) Numbers provided with Dental Care</i>			
Examined — — —	186	259	1158
Needing Treatment — — —	170	251	1037
Treated — — —	162	248	1033
Made Dentally Fit — — —	109	193	1022
Total Attendances — — —	331	722	1317
<i>(b) Forms of Dental Treatment Provided</i>			
Temporary Extractions — — —	—	—	1610
Permanent Extractions — — —	425	1117	—
Temporary Teeth Filled — — —	—	—	418
Permanent Teeth Filled — — —	147	194	—
Anaesthetics — Local — — —	96	137	616
General — — —	52	124	698
Partial Upper Dentures fitted — — —	8	36	—
Full Upper Dentures fitted — — —	8	46	—
Partial Lower Dentures fitted — — —	3	17	—
Full Lower Dentures fitted — — —	7	38	—
Scalings or Scaling and Gum Treatment — — —	34	64	3
Silver Nitrate Treatment — — —	—	—	104
Dressings — — —	31	62	25
Radiographs — — —	—	7	3
Crowns or Inlays — — —	—	—	—

Number of Sessions spent on M.C.W. work — — — 374

Artificial Sunlight Treatment

During the year 1956, the attendances by children under 5 at the sunlight clinics listed below were as follows:—

Dukinfield	.....	249	Sale	.....	183
Hyde	.....	1909	Stalybridge	.....	585
New Ferry	.....	217			

Orthopaedic Scheme

The specialist orthopaedic sessions held at clinic premises are conducted by the Regional Hospital Boards, in the same way as those held at hospital premises, and suitable financial arrangements were made for the few clinics where physiotherapy was only partly under specialist supervision.

The following shews the attendances made during 1956 at such clinics (excluding those for sunlight only) by children under 5:—

Dukinfield	.....	86	Northwich	.....	478
Ellesmere Port	.....	191	Runcorn	.....	403
Hyde	.....	598	Stalybridge	.....	321
New Ferry	.....	237	Stockton Heath	.....	244

Infant Foods

The financial arrangements involved in the supply of infant foods at Welfare Centres continued in the main to be dealt with by Divisional Medical Officers and the voluntary committees' valued help in the various aspects of centre work was continued.

Welfare Foods Service

At 31st December, 1956 there were, in all, 190 distribution centres in the administrative county, 153 of these being manned by voluntary personnel, and 37 by full-time or part-time paid staff, including the staffs of the local district councils where, by arrangement, points have been established on district council premises.

Supplies are received from S.P.D. Depots at Hanley, Liverpool, Manchester and Welshpool. S.P.D. Ltd. act as agents of the Ministry of Agriculture, Fisheries and Food in the matter of storage and delivery. It is usual for 6 weeks supply of Welfare Foods to be held at each distribution centre.

A total of 1,049,624 articles were distributed to individual beneficiaries, Institutions, N.H.S. Hospitals, and day nurseries during the period 1st January, 1956 to 29th December, 1956 made up as follows:—

National Dried Milk	.....	.....	.....	330,740	tins
Cod Liver Oil	.....	.....	.....	87,654	bottles
Vitamin A & D Tablets	.....	.....	.....	40,142	packets
Orange Juice	.....	.....	.....	591,088	bottles

Day Nurseries

Details of the 13 Day Nurseries now maintained by the County Council are given on page 32. The following table shows the position at the end of 1956:—

No. of Nurseries	No. of Places		No. of Children on register		Average daily attendance	
	0—2	2—5	0—2	2—5	0—2	2—5
13	233	333	136	375	117	282

Care of Unmarried Mothers

Arrangements have continued whereby unmarried expectant mothers are admitted to voluntary institutions some time before the confinement, and return there with the baby for varying periods afterwards. The County Council's own Home at 7, Trinity Road, Hoylake, provides 12 beds and 8 cots, and 45 women were admitted during the year, staying approximately eight weeks before the birth and six weeks afterwards. Responsibility was accepted at other homes and hostels for 32 such mothers during the year.

Child Welfare Centres

The following Table gives particulars, as in previous years, of the sessions and attendances at Child Welfare Centres throughout the County:—

LIST OF CHILD WELFARE CENTRES, 1956.

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Adswood —	Fortnightly	1st and 3rd Monday	22	605	189	28
Alderley Edge	Weekly	Friday	50	1375	521	28
Alsager —	Fortnightly	1st, 3rd and 5th Tuesday	25	1134	281	45
Altrincham — (The Mount)	Twice weekly	Monday & Wednesday	100	3684	502	37
Altrincham — (Timperley)	Four times weekly	Tuesday a.m. & p.m. & Thursday a.m. & p.m.	200	6651	710	33
Antrobus —	Fortnightly	1st and 3rd Wednesday	24	200	57	8
Audlem —	Fortnightly	1st and 3rd Tuesday	24	769	323	32
Barnton —	Fortnightly	2nd and 4th Wednesday	24	830	137	35
Barrow —	Fortnightly	1st and 3rd Wednesday	24	426	127	18
Bebington — (New Ferry)	Weekly	Wednesday	41	1716	656	42
Bebington — (New Ferry Toddlers')	Monthly	2nd Thurs.	10	67	52	7
Bebington — (Bromboro')	Weekly	Thursday	51	1534	433	30
Bebington — (Eastham)	Weekly	Monday	49	1920	94	39
Bebington — (Eastham Toddlers')	Monthly	3rd Friday	9	53	47	6
Bebington — (Thornton Hough)	Fortnightly	1st and 3rd Friday	24	231	69	10
Bebington — (Higher Bebington)	Weekly	Tuesday	52	1264	444	24
Bebington — (Mayer Hall)	Weekly	Friday	49	1479	287	30
Bollington —	Fortnightly	2nd and 4th Thursday	24	783	256	33
Bowdon —	Fortnightly	2nd and 4th Thursday	23	534	147	23
Bramhall —	Fortnightly	1st and 3rd Monday	21	853	186	41
Bredbury —	Twice weekly	Tuesday a.m. & p.m.	88	2505	758	28
Broadbottom	Fortnightly	1st and 3rd Wednesday	24	586	132	24
Cheadle —	Weekly	Tuesday	51	3282	1141	64
Cheadle — (Toddlers')	Monthly	3rd Wed.	13	180	180	14
Cheadle Hulme	Fortnightly	Alternate Tuesdays	25	1455	346	58
Comberbach	Fortnightly	1st and 3rd Wednesday	24	886	197	37
Congleton —	Weekly	Monday	49	1715	662	35
Crewe — (Ludford St.)	Twice weekly	Thursday a.m. & p.m.	102	3333	575	33
Crewe — (Minshull New Road)	Fortnightly	1st and 3rd Monday	17	336	129	20

LIST OF CHILD WELFARE CENTRES, 1956—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Crewe — (Stalbr'ge Rd.)	Twice weekly	Monday and Wednesday	100	3160	431	32
Davenham —	Monthly	1st Monday	12	464	101	39
Delamere —	Fortnightly	1st and 3rd Wednesday	24	370	200	15
Disley —	Fortnightly	1st and 3rd Tuesday	25	787	200	31
Doddington	Fortnightly	1st and 3rd Wednesday	15	139	83	9
Dukinfield —	Twice weekly	Wednesday & Thursday	99	3971	1221	40
Ellesmere Port (York Road)	Twice weekly	Tues. & Fri.	102	3448	519	34
Ellesmere Port (York Road 'Toddlers')	Monthly	1st Friday	10	84	84	8
Ellesmere Port (Ince)	Fortnightly	2nd and 4th Thursday	23	279	91	12
Ellesmere Port (Little Sutton)	Weekly	Monday	49	2670	433	54
Ellesmere Port (Overpool)	Fortnightly	1st and 3rd Thursday	24	811	111	34
Farndon —	Fortnightly	1st and 3rd Tuesday	24	189	75	8
Frodsham —	Fortnightly	Alternate Tuesdays	26	1093	346	42
Gatley —	Fortnightly	2nd and 4th Thursday	23	1197	331	52
Goostrey —	Fortnightly	1st and 3rd Tuesday	24	816	253	34
Grappenhall	Weekly	Tuesday	51	1566	543	31
Greasby —	Weekly	Wednesday	52	1855	466	36
Hale —	Weekly	Wednesday	51	2696	144	53
Hale Barns	Fortnightly	1st and 3rd Thursday	25	428	105	17
Handforth —	Fortnightly	2nd & 4th Monday	23	593	214	26
Hartford —	Fortnightly	2nd & 4th Tuesday	23	653	218	28
Haslington —	Fortnightly	2nd and 4th Tuesday	24	755	272	31
Hazel Grove—	Weekly	Tuesday	51	3424	957	67
Heald Green—	Fortnightly	1st & 3rd Thursday	24	736	223	31
Helsby —	Fortnightly	Alternate Tuesdays	25	893	273	36
Heswall —	Weekly	Monday	50	2643	587	53
High Lane —	Fortnightly	2nd and 4th Tuesday	25	714	138	29
High Legh —	Fortnightly	1st and 3rd Wednesday	4	62	39	15
Hollingworth	Fortnightly	1st and 3rd Thursday	24	1349	233	56
Holmes Chapel	Fortnightly	2nd and 4th Tuesday	23	546	156	24
Hoylake —	Weekly	Thursday	51	2696	626	53
Huntington —	Fortnightly	2nd and 4th Wednesday	23	407	150	18
Hyde — (Bayley Hall)	Twice weekly	Mon. & Fri.	98	3704	450	38
Hyde — (Parsonage St.)	Twice weekly	Wed. & Thurs.	102	4643	974	46

LIST OF CHILD WELFARE CENTRES, 1956—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr..	Average Att.
Irby —	Weekly	Wednesday	51	1653	281	32
Kelsall —	Fortnightly	1st and 3rd Tuesday	24	607	143	25
Kingsley —	Fortnightly	2nd & 4th Wednesday	23	362	121	16
Knutsford —	Weekly	Wednesday	51	1626	638	32
Lower Peover —	Fortnightly	2nd and 4th Monday	28	332	120	12
Lymm —	Weekly	Tuesday	51	2658	788	52
Lymm — (Toddlers')	Fortnightly	2nd and 4th Wednesday	17	183	183	11
Macclesfield — (Bridge St.)	Twice weekly	Mon. & Fri.	98	2334	656	24
Macclesfield — (Bridge St. Toddlers')	Weekly	Tuesday	50	538	166	11
Macclesfield — (Heyes Hall)	Weekly	Wednesday	51	1296	199	25
Macclesfield — (Hurdsfield House)	Weekly	Thursday	51	2301	430	45
Macclesfield — (Hurdsfield House Toddlers')	Weekly	Tuesday	51	872	198	17
Macclesfield — (Sanders Sq.)	Weekly	Friday	51	1239	361	24
Macclesfield — (Sanders Sq. Toddlers')	Weekly	Thursday	52	308	137	6
Malpas —	Fortnightly	1st and 3rd Monday	21	166	93	8
Marple —	Weekly	Wednesday	50	3258	769	65
Marple Bridge —	Fortnightly	2nd and 4th Thursday	23	821	281	36
Mellor —	Fortnightly	1st and 3rd Thursday	24	654	230	27
Middlewich —	Weekly	Monday	49	1457	449	30
Mobberley —	Fortnightly	Alternate Tuesdays	26	554	311	21
Moulton —	Monthly	3rd Wed.	12	253	105	21
Mow Cop —	Fortnightly	1st and 3rd Wednesday	24	328	301	14
Nantwich —	Weekly	Thursday	51	1832	220	36
Neston —	Weekly	Thursday	50	3994	372	80
Northwich — (Darland House)	Weekly	Tuesday	51	2005	532	40
Northwich — (Parkfield)	Weekly	Thursday	51	2257	885	44
Over Peover —	Fortnightly	1st and 3rd Monday	20	191	105	10
Partington —	Fortnightly	1st and 3rd Thursday	24	698	308	29
Plumley —	Fortnightly	1st and 3rd Thursday	24	550	159	23
Poynton —	Fortnightly	1st and 3rd Thursday	24	1384	316	58
Prestbury (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	251	76	10

LIST OF CHILD WELFARE CENTRES, 1956—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Rainow (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	265	69	11
Rode Heath—	Fortnightly	2nd and 4th Monday	24	422	199	18
Romiley —	Weekly	Thursday	50	1113	462	22
Runcorn — (Halton Road)	Twice weekly	Wednesday a.m. & p.m.	90	2698	1009	30
Runcorn — (Halton Road Toddlers')	Monthly	1st Monday	12	122	111	10
Runcorn (Weston Point)	Fortnightly	1st and 3rd Thursday	24	480	229	20
Sale (Brooke's Institute)	Weekly	Friday	49	1997	523	41
Sale (Chapel Road)	Twice weekly	Tuesday & Thursday	103	4781	1219	46
Sale (Raglan Road)	Fortnightly	1st and 3rd Tuesday	50	2377	727	48
Sale Moor —	Weekly	Thursday	50	2040	725	41
Sandbach —	Weekly	Tuesday a.m. & p.m.	81	3211	882	40
Sandiway —	Fortnightly	1st and 3rd Tuesday	24	1105	209	46
Saughall —	Fortnightly	1st, 3rd & 5th Monday	29	705	214	24
Scholar Green	Fortnightly	2nd and 4th Wednesday	24	659	238	27
Shavington —	Fortnightly	2nd and 4th Tuesday	23	739	222	32
Stalybridge — (Mechanics' Institute)	Twice weekly	Tuesday & Wednesday	99	4244	938	43
Stalybridge — (Millbrook)	Fortnightly	1st and 3rd Monday	44	1453	309	33
Stockton Heath	Weekly	Monday	49	1306	333	27
Sutton —	Fortnightly	2nd and 4th Wednesday	22	379	103	17
Tarporley —	Fortnightly	2nd and 4th Thursday	24	850	213	35
Tarvin —	Fortnightly	2nd and 4th Wednesday	24	546	91	23
Tattenhall —	Fortnightly	2nd and 4th Monday	24	364	115	15
Tintwistle —	Fortnightly	2nd & 4th Thursday	24	701	117	29
Upton —	Weekly	Thursday	51	1577	551	31
Weaverham —	Weekly	Tuesday	51	2429	632	48
West Kirby —	Weekly	Friday	50	2308	523	46
Willaston (Wirral)	Fortnightly	1st and 3rd Friday	24	489	199	20
Wilmslow —	Weekly	Thursday	51	1803	336	35
Winsford —	Weekly	Friday	39	1588	571	41
Winsford (Toddlers')	Monthly	1st Thurs.	12	244	109	20
Wistaston (Willaston)	Fortnightly	2nd and 4th Wednesday	23	686	140	30
Wrenbury —	Fortnightly	2nd and 4th Wednesday	23	351	121	15

Nursing and Maternity Homes

The County Council is the registration Authority for private Nursing and Maternity Homes under Sections 187 to 194 of the Public Health Act, 1936, for the whole County, and the following details show the position for the year ended 31st December, 1956:—

No. on Register, 31/12/56	.....	.....	29
No. of inspections during 1956	.....	.....	34
No. of new homes registered in 1956			4

Homes for Old People, etc.

The regulations for registration and inspection of voluntary homes for old people, etc., namely the National Assistance (Registration of Homes) Regulations, 1949, are administered by the County Health Department, and the position for the year ended 31st December, 1956, is shewn below:—

No. on Register, 31/12/56	.....	.....	22
No. of inspections during 1956	.....	.....	20
No. of new homes registered in 1956			3

Nurseries and Daily Minders

The County Health Department is responsible for the inspection and registration of premises under the Nurseries and Child Minders Regulation Act, 1948, and the position on 31st December, 1956, was as follows:—

(a) (i)	Number of factory nurseries registered	.....	.....	6
(ii)	Number of children provided for	.....	.....	212
(b) (i)	Number of daily minders registered	.....	.....	10
(ii)	Number of children provided for	.....	.....	85

Section VII.-Midwifery

General

A summary of the numbers involved is given below, further details on pp. 28-29, and general information, relating both to district nurses who practise midwifery and to those who do not, in Section XI.

Number of Midwives in Practice

There were 375 midwives who notified their intention to practise in the County Area during 1956:—

County Midwives	69
District Nurse Midwives	119
Independent Midwives	30
Practising in Private Nursing Homes	13
Practising in Institutions	144

Inspection of Midwives

Visits paid by Senior Medical Officer	147
Lectures to midwives and pupils	19

Visits paid by Non-Medical Supervisor of Midwives:—

Inspection of County Midwives	150
Inspection of Independent Midwives	6
Statutory supervision of District Nurse Midwives	133
Special visits to Midwives	116
Visits to pupil Midwives	41
Lectures to pupils and Midwives	12

Cases visited:—

Labours	5
Nursings	80
Ante-natal	31

Cases attended by County Midwives and District Nurse Midwives on County Council Staff

	Deliveries (live and still)		Stillbirths included in Cols. a & b	Miscarriages
	Col. a as midwives	Col. b as maternity nurses		
Midwives	2,474	858	26	97
District Nurse Midwives	730	849	20	93
Total	3,204	1,707	46	190

Number of patients attended by midwives following early discharge from Hospital 3430

Notifications received (Central Midwives Board Rules)

Medical Aid	1210
Stillbirths	133
Laying out the Dead	49
Source of Infection	98
Artificial Feeding	1516
Deaths in the Practice	29

Gas and Air Analgesia

(a) Number of domiciliary midwives practising in area 31/12/56, who were qualified to administer gas and air analgesia	165
(b) Number of sets of apparatus in use by above, 31/12/56	148
(c) Number of cases in which gas and air was so administered, 1956	3289

Pethidine

Number of cases in which pethidine was administered by
domiciliary midwives during 1956:—

(a) When Doctor was not present	1649
(b) When Doctor was present	666

Section VIII.-Food and Drugs Acts

Milk (Special Designations) (Pasteurised and Sterilised Milk) Regulations, 1949.

Twenty-seven dairy premises in the administrative county are licensed for the processing of milk by pasteurisation or sterilisation. These vary from the small one-man dairy to the large processing factory dairies owned by the important dairy firms. They are subject to official supervision and samples of processed milk are collected three times weekly for examination and comparison with the legal standard.

The sample records for 1956 were very satisfactory. 753 samples of sterilised milk were examined, all of which passed the official test. 4235 samples of pasteurised milk were examined, of which 28 were unsatisfactory (0.6 per cent). With one exception the unsatisfactory milk samples were processed by means of the batch holder type of pasteurising plant. Generally these failures were due to such causes as faulty or incorrect indicating or recording thermometers on the processing units or an occasional lapse on the part of an operator during the processing of the milk.

Unlike the majority of county authorities who are dependent on hospital or other laboratories for the examination of samples of processed milk, Cheshire has a laboratory attached to the Public Health Department. All test samples are examined by the official Kay-Graham method and also by the unofficial Aschaffenburg-Mullen method which is quicker and equally reliable. There is close contact between the laboratory and dairymen. Laboratory reports on the examination of milk samples and washed bottles are especially appreciated by the smaller dairyman who, unlike the large dairy firms, has no laboratory of his own to indicate any unsatisfactory conditions in the processing plant.

Occasionally the laboratory gives an informal warning to a dairyman when border-line samples indicate that milk processing is not being carried out up to the usual standard. Cheshire dairymen have complete confidence in our laboratory reports. None has been disputed since the department took over this work despite the fact that check samples are examined in the laboratories of the large dairy firms for comparison with official samples. The slightest contamination of the milk, reagents or laboratory equipment with a phenolic substance will either render the official test void or give a false high reading.

REPORT ON SAMPLES OF WASHED BOTTLES COLLECTED FROM MILK PROCESSING DAIRIES

Year	Satis- factory	Fairly Satis- factory	Unsatis- factory	Coliform Bacilli Negative	Coliform Bacilli Positive	Total No. of Examin- ations made
1953 March to December (incl)	3,377	37	76	3,486	4	6,980
1954	4,769	23	40	4,830	2	9,664
1955	2,911	37	15	2,962	1	5,926*
1956	4,609	59	53	4,717	4	9,442

Interpretation of results:—

<i>Colony count per bottle.</i>	<i>Classification.</i>
Not more than 200	Satisfactory
200 to 600	Fairly satisfactory
Over 600	Unsatisfactory

* It was not possible to carry out any of these examinations between mid June and mid October due to a breakdown of the incubator in the laboratory.

Tuberculous Milk

In connection with the ascertainment of tuberculous milk, 2819 samples were taken at farms by the County Sampling Officers during 1956, of which 126 proved to be positive.

Co-operation with the Ministry of Agriculture and with local Sanitary Authorities has continued, so as to ensure that the high standard of milk production in Cheshire shall be maintained and improved.

County Public Health Laboratory

The following tables show the work of the County Laboratory during 1956 in comparison with previous years.

Total number of examinations made during the year 1956—

	<i>Pos.</i>	<i>Neg.</i>	<i>Total</i>
Milks :			
Cultures for Coliform bacilli	166	4069	4235
	<i>Failed</i>	<i>Passed</i>	<i>Total</i>
Aschaffenburg and Mullen Test	28	4207	4235
(Pasteurised milks)			
Phosphatase test (Kay-Graham)	28	4207	4235
(Pasteurised milks)			
Clot on boiling test	—	4988	4988
Reductase test	5	4215	4220
Turbidity test (sterilised milks)	—	753	753
Plate counts	—	—	1430
Rezazurin Test	—	—	56
Washed Bottles	—	—	9442
Swabs from H.T.S.T. & Batch Holder			
Plants for Coliform bacilli	8	18	26

Total examinations made of all specimens 33,620

Milk Specimens examined 1947-56

Year	Clot on Boiling Test	Reductase Test	Coliform Test	Pasteurised Milk		Plate Count	Turbidity Test for Sterilised Milk	Rezazurin Test	Total Examinations
				Phosphatase Test (Kay-Graham)	Aschaffenburg Test				
1947	.....	12682	10167	373	.....	2	.....	.....	23224
1948	.....	13330	11128	447	.....	8	.....	.....	24911
1949	.....	9400	6764	530	.....	1	.....	.....	16695
1950	.....	1121	.....	1201	.....	.....	51	.....	2373
1951	3451	3443	3238	3454	1459	.....	134	.....	15179
1952	3924	3830	3858	3858	3858	1089	156	.....	20573
1953	4304	3929	3948	3948	3948	1322	356	.....	21755
1954	4627	4100	4105	4105	4105	1400	522	.....	22964
1955	4976	4197	3312	4293	4293	860	624	.....	22555
1956	4988	4220	4235	4235	4235	1430	753	56	33620

Samples for Analysis.

The Chief Inspector of Weights and Measures, Food and Drugs etc., (Mr. Stacey Hallard) reports as follows on the work of his Department in administering the Food and Drugs Act, 1955 insofar as it relates to the adulteration or impoverishment of foods and drugs.

The Food and Drugs Act, 1955, which came into operation on the 1st January, 1956, represents a consolidation of the Food and Drugs Act, 1938, with various other statutes. The provisions so far as the Department is concerned are not greatly changed and are, as before, chiefly directed to providing protection for the public against the sale of injurious or adulterated food and drugs. Certain provisions make it an offence to describe falsely a food and drug either by label or in an advertisement.

The coming into operation of the Act has not affected the administrative area of the County Council in its capacity as a "Food and Drugs Authority", and at the end of the year 1956 the County Council remained responsible for the whole administrative County of Chester excepting the Municipal Boroughs of Bebington, Crewe and Sale.

On the 1st July, 1956 the Milk and Dairies (Channel Islands and South Devon Milk) Regulations, 1956, came into operation and these provide that "each Food and Drugs Authority" shall enforce and execute the provisions of the regulations in their area.

The regulations continued in force the previous existing standard for Channel Islands and South Devon Milk by providing that no person shall sell, for human consumption, any milk described as Channel Islands, Jersey, Guernsey or South Devon unless the milk contains at least four per cent. of milk-fat. The main effect of the new regulations was to change the previous arrangement whereby full particulars of any such milk found to be below the four per cent. had to be reported to the Ministry of Agriculture, Fisheries and Food for administrative action. From the 1st July last this arrangement ceased and since that date any necessary action has been taken by the County Council.

The general administrative work under the Act and Regulations carried out by officers of the Weights and Measures Department consists in the main, of obtaining by purchase or otherwise samples of all types of food and drugs on sale. These are subsequently submitted to the Public Analyst for the County (J. G. Sherratt, Esq., B.Sc., F.R.I.C.) for analysis. Roughly two-thirds of the samples taken are of milk as it will be readily appreciated that this commodity lends itself far more easily to adulteration than possibly any other food. The milk is sampled at any time during its progress from the cows to the ultimate consumer but the vast majority of samples are taken from retail vehicles in the streets or from churns awaiting collection in or near farm premises.

The following list gives a general picture of the numbers and types of articles submitted during the year 1956 and also the samples which were reported as non-standard or otherwise failing to conform to statutory requirements.

<i>Article</i>	<i>Total Analysed</i>	<i>Samples certified as adulterated or otherwise not in order</i>
Bread, White	1	1
Cream, Thick	10	1
Lard	12	1
Milks	1,174	69
Peel, Cut	1	1
Raisins	3	1
Raspberry Fruit Preserve	1	1
Rice	3	1
Suet, Shredded Beef	3	1
Sweet Spirit of Nitre	4	2
Tonik	2	1
Whisky	27	2
B.P. Official preparations, simple household medicaments, etc.	136	—
Miscellaneous groceries and unclassified articles	513	—
	<hr/> 1,890	<hr/> 82

Regarding non-standard milks; comparing the position with the previous year of 1955 it will be seen from the following table that a similar pattern emerges and whilst no improvement can be recorded it is also true there is no evidence of deterioration in the position.

	1955	1956
Number of non-standard milks	64	69
Number of milk samples containing extraneous water	7	6
Number of milk samples deficient in fat.....	20	21
Number of milk samples deficient in non- fatty solids	35	40
Number of milk samples containing foreign matter	2	2

During 1956 only two farmers were proceeded against in respect of watered milk.

One concerned milk produced at a farm in Lancashire and consigned to a Dairy in Cheshire. The offences came to light as a result of a telephone complaint by the Manager of a Dairy Company to the effect that a farmer was sending in watered milk. An Inspector

of this Department took samples from the two churns as the collecting lorry arrived at the dairy and these were found to contain extraneous water. The Lancashire Food and Drugs Inspector was then asked to take corresponding samples of the milk as it was being collected next day from the farm in Lancashire. He agreed and took samples from two churns which subsequently proved to contain extraneous water. On the following day again the Lancashire Inspector took an 'appeal to cow' sample after having supervised the whole of the milking and this proved genuine. Four summonses were issued and the producer was subsequently fined £10 and £1 6s. 3d. costs in each case. Total penalty £45 5s. 0d.

The other instance concerned milk supplied from a Cheshire farm to a Dairy Company. The Company had taken samples of the milk and found extraneous water. As a result the farm was kept under observation by an Inspector who later intercepted the Dairy Company's collecting lorry as it left the farm with the milk. He found that two churns (one morning and one evening milk) had been collected by the driver and the Inspector thereupon took a sample from each churn.

Subsequently the evening milk was certified as genuine (although slightly below standard) but the churn of morning milk contained 15 per cent. of extraneous water. The Magistrates fined the defendant £15 and ordered him to pay £7 4s. 0d. costs. Total penalty £22 4s.

As mentioned earlier in the report the County Council is now responsible as a "Food and Drugs Authority" for administrative action regarding the quality of Channel Island milk on sale and in this respect it was necessary to institute legal proceedings against two producers of milk which fell seriously short of the standard of 4 per cent. of milk-fat laid down in the Regulations.

The first case concerned Channel Islands milk which contained only 3.2 per cent. of milk fat and the Magistrates fined the producer £2 and £1 1s. 0d. costs.

In the second prosecution the milk contained only 3.2 per cent. fat and the producer in this case was fined £10 and £1 8s. 0d. costs.

A number of other instances occurred in which Channel Islands milk was certified to be below the standard but the deficiency in fat was either comparatively small or other exceptional circumstances were involved. In all these instances the producers were warned that future deficiencies would lead to the institution of legal proceedings.

It is interesting to record that the first prosecution in this County under the Milk (Special Designations) (Specified Arcas) Orders occurred in October 1955 but only came before the Justices in January 1956,—hence its inclusion in this review. It concerned a retailer who was found in Wilmslow by the local Sanitary Inspector retailing milk

in bottles bearing a plain cap. The retailer admitted that he had been short of pasteurised milk and had therefore bottled some of his own produced raw milk. Wilmslow had been a 'specified area' since 1st January, 1954, and since that date it has been illegal for traders to sell by retail for human consumption any milk other than under a special designation, *i.e.* pasteurised, in this case and the defendant was fined £5.

School milk continues to cause anxiety and ten complaints from Head Teachers alleging that splinters of glass had been found in school milk were investigated. In four instances the circumstances were sufficiently serious to warrant proceedings being instituted. One summons was dismissed and in another the Dairy Co. was ordered to pay costs of 4/-. In the third case a Dairy Company was fined £25. A most remarkable point about this latter instance was that a fortnight after the date of the offence this same firm again delivered to the same school another bottle containing glass fragments. Both cases were heard on the same day and on this summons also the Magistrates imposed a fine of £25.

Apart from these "glass" cases a further three prosecutions were undertaken in respect of other extraneous matter found in school milk bottles.

One prosecution resulted from a very dirty bottle containing milk which had been delivered with the usual supply for consumption by school children. A girl (aged 15) received the bottle in class and noticed that on the inside was an area of approximately six square inches thinly coated with a light brown substance. She did not drink the milk but handed it to the teacher and eventually the complaint, in accordance with routine practice reached this Department. At the subsequent hearing the firm was represented by Counsel and pleaded guilty. The Magistrates in imposing a fine of £20 said that although they appreciated the difficulties of the firm they felt that three offences in 18 months needed some special attention being given to the matter.

A second case concerned the same school and the same supplying firm although the offence was committed nearly two months after the one described above. On this occasion another 15-year old girl was handed a bottle of milk during the usual morning break and she drank the contents through a straw. When she had finished drinking she noticed the presence of dirt at the bottom of the bottle. It was most unfortunate that this particular girl had recently suffered from poliomyelitis and thus was more than usually concerned at the possibility of having swallowed dirt. The usual investigations were made by an Inspector of this Department and as a result the firm, who pleaded not guilty, was fined £20.

A final instance concerned a foil cap found in a bottle of school milk. In this case a fine of £5 was imposed.

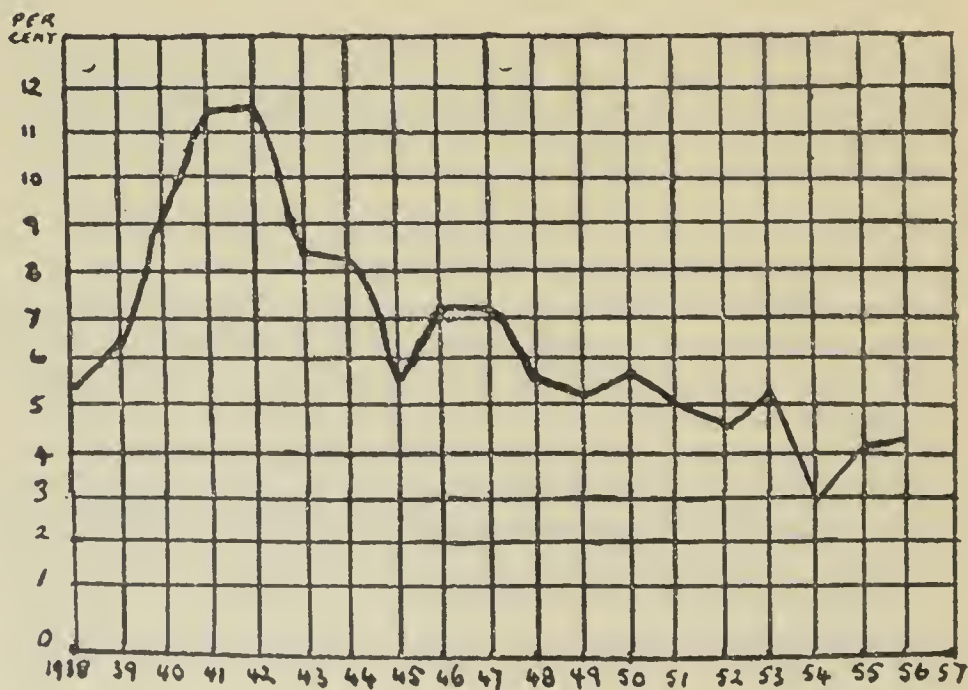
Regarding samples other than milk,—of the 716 analysed only 13 were reported against as being of non-standard quality or otherwise not conforming to the labelling requirements laid down in the Labelling of Food Order, 1953.

A brief summary of all these samples is given below, the result of the analysis being shown in parenthesis:—

- 1 **Tonik.** (contained 2 parts per million of phenol). This was a mineral water type of article and was submitted for analysis as a result of a complaint by a private householder who alleged her daughter had been taken ill as a result of drinking the fluid. The County Analyst reported that although there was a distinct odour of phenol the contamination was negligible and was not sufficient to have had any harmful effect if taken internally. The manufacturers were cautioned.
- 2 **Raspberry Fruit Preserve.** (did not conform to the Food Standards (Preserves) Order, 1953,) this was a diabetic preparation not labelled in accordance with the Order. Manufacturers cautioned.
- 3 **Thick Cream.** (50 per cent. deficient in fat). This was a tin of cream purchased at a branch shop of a multiple firm. The tin itself was correctly labelled but an employee had placed a large card bearing the words "Thick Cream" on the display stand. The firm in question had been prosecuted last November in respect of a similar offence at a shop in another part of Cheshire and on that occasion they were fined £2. In the present case they were fined £3 and £1 18s. 0d. costs.
- 4 **Raisins.** (Contained 5 per cent currants). Mixed by close proximity of boxes in shop. Seller cautioned.
- 5 **Bread (White).** (Contained oily matter, rust and dirt). Prosecution undertaken as a result of a complaint by a housewife who had purchased a loaf of sliced bread at her local shop. On opening the wrapping she found several of the slices were marked with brown stains and streaks. As a result proceedings were taken against the bakers but the Magistrates dismissed the case after the defendants had pleaded the defence provided in the Food and Drugs Act that the contamination was an "unavoidable consequence of the process of collection or preparation".
- 6 **Shredded Beef Suet.** (1.5 per cent deficient in fat). Manufacturer cautioned.
- 7 **Sweet Spirit of Nitre.** (Devoid of ethyl nitrite). Seller cautioned. Deficiency probably due to rapidity with which ethyl nitrite decomposes.
- 8 **Rice.** (Contaminated with small pieces of stone equivalent to 0.1 per cent. in weight). Seller cautioned. Stones probably collected during gathering of rice in Burma.

- 9 **Cut Peel.** (Containing more sulphur dioxide than permitted by the Preservative Regulations). Manufacturers cautioned.
- 10 **Whisky.** (5.3 per cent extraneous water). Inspectors acting as ordinary customers, purchased two double whiskies at public house—then declared they were for analysis. At subsequent hearing of case Justices imposed fine of £10 and £1 15s. 0d. costs.
- 11 **Sweet Spirit of Nitre.** (Deficient in ethyl nitrite to the extent of 70% of the minimum required by the B.P.C.) Seller cautioned. Remarks under No. 7 apply.
- 12 **Lard.** (Rancid and contained an excess of free fatty acid). Manufacturers cautioned.
13. **Whisky.** (Contaminated with 7 parts per million of iron). Seller cautioned. Investigation disclosed that the porcelain in an optic measure had fractured allowing spirit to come in contact with metal.

Finally, although there is a slight rise (from 4.1 to 4.3%) in the percentage of non-standard samples when compared with the year 1955, nevertheless, the figure is, apart from the last two years, well below that for any year since before the war. The graph below shows at a glance the percentage of non-standard samples each year since 1938.



Section IX. Mental Health

PART I. MENTAL ILLNESS

TABLE I.

The following table shows the number of people suffering from mental illness admitted to hospital during the period 1st January to 31st December, 1956.

HOSPITAL	Mental Treatment Act, 1930				Lunacy Act, 1890						TOTAL	
	s. 1 (Vol.)	s. 5 (Temp.)	s. 20 (3 Day)	s. 21 (14 Day)	s. 16 (Certi- fied)							
<i>Liverpool Region</i> (Population 260,128)	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Deva, Chester	110	138	8	3	41	31	26	44	33	56	218	272
Winwick, Warrington	9	31	—	—	3	6	9	12	2	6	23	55
Ormskirk, Lancs.	—	—	—	—	—	—	—	1	—	—	—	1
St. Catherine's, Birkenhead	—	1	—	—	8	13	7	13	4	—	19	27
Whiston, Lancs.	—	—	—	—	—	—	2	4	—	—	2	4
Sefton General, Liverpool	—	—	—	—	1	—	—	—	—	—	1	—
Rainhill, Lancs.	3	1	—	—	—	—	—	—	—	—	3	1
	122	171	8	3	53	50	44	74	39	62	266	360
<i>Manchester Region</i> (Population 590,272)												
Parkside, Macclesfield	52	39	1	1	31	17	49	84	34	27	167	168
Lancaster Moor, Lancaster	—	1	—	—	—	—	—	—	—	—	—	1
Prestwich, Manchester	—	1	—	—	—	—	1	1	1	3	2	5
Whittingham, Lancs.	—	—	—	—	—	—	—	—	—	1	—	1
Barony, Nantwich	3	1	—	—	1	—	7	1	8	3	19	5
St. Thomas, Stockport	4	4	—	—	3	—	5	8	4	11	16	23
Lake, Ashton-u-Lyne	—	1	—	—	—	—	—	—	—	3	—	4
Ollersett, New Mills	—	—	—	—	—	—	—	—	—	5	—	5
Crumpsall, Manchester	—	—	—	—	—	—	—	—	—	1	—	1
	59	47	1	1	35	17	62	94	47	54	204	213
<i>Others</i>												
Cheadle Royal, Cheshire	2	2	5	2	—	—	—	—	1	4	8	8
Provincial	3	1	—	—	—	1	—	1	1	2	4	5
	5	3	5	2	—	1	—	1	2	6	12	13
Totals	186	221	14	6	88	68	106	169	88	122	482	580
Combined Totals	407	20	156	275	210	1068						
Corresponding Period 1955	351	16	117	245	262	991						

Source of Notification of Cases of Mental Illness.

82

General

The impact of mental illness on the community continues to become more serious year by year, and 1956 again shows an increase of admissions to hospital. Fortunately, it would appear that early hospitalization contributes to an early restoration in the majority of cases, but the pressure on accommodation is so acute that frequently recommendation for in-patient treatment cannot be secured until convalescent patients have been discharged. Two new out-patient clinics have been established in the Manchester region, and the full service in the respective Regional Hospital Boards' areas is as follows:—

Liverpool	Manchester
Royal Infirmary, Chester	Lake Hospital, Ashton-u-Lyne
Whitby Hospital, Ellesmere Port	Stepping Hill Hospital, Stockport
Victoria Hospital, Runcorn	Rosemount, Macclesfield
Clatterbridge Hospital, Wirral	Crewe Memorial Hospital, Crewe
St. Catherine's Birkenhead	Victoria Hospital, Northwich

Admissions

The undermentioned information, extracted from the Deva Hospital returns, conveys in retrospect (a) the nature of mental illness prevalent during the year (b) the period of hospitalization, and the prospect of a resumption of the patient's former normal life.

<i>Nature of Illness</i>	<i>Males</i>	<i>Nature of Illness</i>	<i>Females</i>
Depression — — — —	65	Depression — — — —	120
Anxiety State — — — —	6	Depression Menopausal — —	3
Schizophrenia — — — —	22	Depression Reactive Hysteria — —	1
Psychopathic Personality — —	16	Anxiety Neurosis — — — —	4
Epilepsy — — — —	4	Melancholia — — — —	2
Hypochondriasis — — — —	2	Hysteria — — — —	5
Confusional State — — — —	8	Manic Depressive State — —	3
Obsessive Psychoneurosis — —	4	Schizophrenia — — — —	8
Mental Defective — — — —	3	Mania — — — —	4
Alcoholism — — — —	7	Paranoid State Menopausal — —	1
Hysteria — — — —	3	Hypochondriasis — — — —	2
General Paralysis of the Insane —	1	Senile Dementia — — — —	2
Affectix State — — — —	3	Confusional State — — — —	1
Chronic Ethylism — — — —	1	Alcoholism — — — —	1
Dementia — — — —	5	Epilepsy — — — —	2
Paranoid State — — — —	3		
Not Stated — — — —	5		
	158		159

Of the foregoing discharge of patients, the status and conditions were as follows:—

	<i>Status</i>		<i>Recovered</i>	<i>Relieved</i>	<i>Not Improved</i>
<i>Males</i>	145	Voluntary	68	64	13
	13	Certified	5	7	1
	<hr/>		<hr/>	<hr/>	<hr/>
	158		73	71	14
	<hr/>		<hr/>	<hr/>	<hr/>
<i>Females</i>	144	Voluntary	75	55	14
	15	Certified	11	4	—
	<hr/>		<hr/>	<hr/>	<hr/>
	159		86	59	14
	<hr/>		<hr/>	<hr/>	<hr/>

The periods spent in hospital, prior to discharge, are as under:

		Under 1 month	1—3 months	3—6 months	6—9 months	9—12 months
<i>Males</i>						
Voluntary	145	58	55	25	4	3
Certified	13	1	3	5	2	2
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	158	59	58	30	6	5
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
<i>Females</i>						
Voluntary	144	52	71	16	3	2
Certified	15	—	7	5	2	1
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	159	52	78	21	5	3
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

After-Care

The number of cases referred to the Department for after-care visitation on discharge from hospital during the year were Deva 136 cases, Winwick 72 cases and Rainhill one case. Domiciliary visits have been made by Health Visitors and Authorised Officers in the Liverpool Regional Hospital Board's area. Discharged patients in the Manchester Regional Hospital Board's area have been supervised by the Hospital Psychiatric Social Workers.

Records

The number of patients admitted from the Administrative County and receiving treatment at the respective hospitals, as extracted from the weekly reports of Authorised Officers, and the statutory returns issued by Hospital Management Committees, are as follows:—

<i>Hospital</i>	Patients at 31/12/56		Patients at 31/12/55		Patients at 31/12/54	
	<i>Men</i>	<i>Women</i>	<i>Men</i>	<i>Women</i>	<i>Men</i>	<i>Women</i>
Deva	362	498	339	510	310	486
Parkside	745	860	622	890	677	807
Stockport	49	42	53	43	53	46
Ashton	11	32	11	26	11	23
Nantwich	32	48	31	43	25	46
Others	249	345	263	349	254	233
	<u>1,448</u>	<u>1,825</u>	<u>1,319</u>	<u>1,861</u>	<u>1,330</u>	<u>1,601</u>

PART II.

MENTAL DEFICIENCY

The following table gives particulars of the cases reported during 1956 and their disposal together with a classification of some special categories:—

		Under age 16		Aged 16 and over	
		M.	F.	M.	F.
1. <i>Particulars of Cases reported during 1956—</i>					
(a) Cases ascertained to be defectives “subject to be dealt with” Number in which action taken on reports by:—					
(i) Local Education Authorities on children					
(1) While at school or liable to attend school		27	24	—	—
(2) On leaving special schools		4	3	2	5
(3) On leaving ordinary schools		—	—	—	—
(ii) Police or by Courts		2	—	1	—
(iii) Other sources		7	2	6	5
		40	29	9	10
(b) Cases reported who were found to be defectives but were not regarded as “subject to be dealt with” on any ground					
		4	4	16	18
(c) Cases reported in which action was incomplete at 31st December, 1956, and are thus excluded from (a) or (b)					
		3	4	—	—
Total number of cases reported during the year		47	37	25	28

		Under age 16		Aged 16 and over	
		M.	F.	M.	F.
<hr/>					
2. <i>Disposal of Cases</i>					
(a) Of the cases ascertained to be defectives "subject to be dealt with" number					
(i) Placed under Statutory Supervision		38	29	5	9
(ii) Placed under Guardianship			—	—	—
(iii) Taken to "Places of Safety"		—	—	—	—
(iv) Admitted to Hospital		2	—	4	1
		40	29	9	10
(b) Of the cases not ascertained to be defectives "subject to be dealt with" number					
(i) Placed under Voluntary Supervision		4	4	16	18
(ii) Action unnecessary		—	—	—	—
Total of Item 2		44	33	25	28
<hr/>					
3 <i>Number of Mental Defectives for whom care was arranged by the local health authority under Circular 5/52 during 1956 and admitted to—</i>					
(a) National Health Service Hospitals		3	5	5	8
(b) Elsewhere		4	2	—	—
		7	7	5	8
<hr/>					
4. <i>Total cases on Authority's Register at 31/12/56.</i>					
(i) Under Statutory Supervision		185	152	315	291
(ii) Under Guardianship		—	—	—	—
(iii) In "Places of Safety"		3	8	1	—
(iv) In Hospitals		46	32	367	259
(v) Under Voluntary Supervision		6	3	61	41
Total		240	195	744	591
<hr/>					
5. <i>Classification of defectives in the Community on 31/12/56 (according to need at that date)</i>					
(a) Cases included in 4 (i)-(iii) in need of hospital care and reported accordingly to the hospital authority:—					
(1) In urgent need of hospital care:					
(i) "cot and chair" cases		14	4	2	2
(ii) ambulant low grade cases		10	66	1	1
(iii) medium grade cases		8	5	8	10
(iv) high grade cases		—	1	1	10
Total urgent cases		32	76	12	23
<hr/>					

	Under age 16		Aged 16 and over	
	M.	F.	M.	F.
(2) Not in urgent need of hospital care:—				
(i) "cot and chair" cases	8	8	1	—
(ii) ambulant low grade cases	4	1	2	—
(iii) medium grade cases	11	6	4	6
(iv) high grade cases	—	—	1	3
	23	15	8	9
(b) Of the cases included in item 4 (i) (ii) and (v) number considered suitable for:—				
(i) occupation centre	113	84	16	14
(ii) industrial centre	—	—	—	—
(iii) home training	—	—	—	—
	113	84	16	14
(c) Of the cases included in item 5 (b) number receiving training on 31/12/56:—				
(i) in occupation centre (including Voluntary Centres)	89	59	16	14
(ii) in industrial centre	—	—	—	—
(iii) from a home teacher	—	—	—	—
	89	59	16	14

Institutional Accommodation

During the year 1956 vacancies were found for mentally defective persons in institutions as follows :—

Arclid Hospital, Sandbach	—	—	—	2
Brockhall Hospital, Langho, Blackburn	—	—	—	3
Calderstones Hospital, Whalley, Lancs.	—	—	—	4
Cranage Hall Hospital, Holmes Chapel	—	—	—	5
Greaves Hall Hospital, Banks, Southport	—	—	—	1
The Manor, Little Sutton, Wirral	—	—	—	1
Mary Dendy Hospital, Alderley Edge	—	—	—	10
Rampton State Institution, Nottinghamshire	—	—	—	2
Royal Albert Hospital, Lancaster	—	—	—	6
Swinton Homes, Manchester	—	—	—	1

Temporary Care

In 1956, the provision was continued of temporary care by admission to hospitals for periods of up to two months during family emergencies, especially during the summer months when permanent patients are on holiday, thus providing a temporary respite for parents of children who could not at the time be permanently accommodated.

During 1956, such temporary care was provided in twenty-one cases. Another method of securing the same benefit has been the introduction of short-stay accommodation at the Orchard Dene Hostel at Rainhill of the National Association for Mental Health where similar temporary accommodation is available, subject to contribution by the parents under the provision of the Care and After-care convalescence provisions of the National Health Service Act. Six children were so accommodated in 1956.

The following table shows the Institutions where patients were accommodated at the end of the year under review:—

	Males		Females		Total		
	Under age 16	Over age 16	Under age 16	Over age 16	Under age 16	Over age 16	Total
Arclid Hospital, Sandbach	5	15	—	3	5	18	23
Ashton House, Birkenhead	—	—	—	4	—	4	4
Birkenhead Hospital	—	1	—	—	—	1	1
Botleys Park Hospital, Chertsey	—	—	—	1	—	1	1
Brentry Colony, Bristol	—	3	—	—	—	3	3
Brockhall Hosp., Langho	7	10	13	24	20	34	54
Bromham Hospital, Bedford	—	1	—	—	—	1	1
Calderstones Hospital, Whalley, Lancs.....	6	44	2	23	8	67	75
Coed Du Hospital, Rhydymwyn	—	—	—	1	—	1	1
Cranage Hall Hospital, Holmes Chapel	13	143	9	122	22	265	287
Durran Hill Hospital, Carlisle	—	—	—	1	—	1	1
Earlwood Hospital, Redhill	—	1	—	1	—	2	2
Eaves Lane Hospital, Chorley	—	—	—	2	—	2	2
Fountain Hospital, London	—	—	2	—	2	—	2
Gillibrand Hall Hosp., Chorley	—	—	—	1	—	1	1
Greaves Hall Hospital, Southport	1	2	—	—	1	2	3
Hensol Castle Hospital, Pontyclun	—	—	—	1	—	1	1
Lisieux Hall, Chorley	—	1	—	—	—	1	1
The Manor, Great Sutton	—	—	—	7	—	7	7
Mary Dendy Hospital, Warford	—	96	—	41	—	137	137
Milnethorpe Hospital, Westmorland.....	—	3	—	—	—	3	3
Monyhull Hall, Birmingham	—	1	—	—	—	1	1
Moss Side Hospital, Maghull.....	—	4	—	2	—	6	6
Newchurch Hospital, Culcheth	—	—	1	1	1	1	2
Rampton Hospital, Retford	2	11	—	3	2	14	16
Royal Albert Hospital, Lancaster	8	19	1	9	9	28	37
St. Margaret's Hospital, Birmingham	—	1	—	—	—	1	1
St. Mary's Hospital, Alton	—	—	—	1	—	1	1
St. Raphael's Hospital, Baron Park, Herts.	—	1	—	—	—	1	1
South Ockenden Hosp., Essex	—	—	—	1	—	1	1
Stanley Hospital, Ulverston	—	—	—	1	—	1	1
Stoke Park Hospital, Bristol	—	9	—	5	—	14	14
Swinton Hospital, Manchester	4	1	4	2	8	3	11
Whittington Hall Hospital, Chesterfield	—	—	—	2	—	2	2
	46	367	32	259	78	626	704

Places of Safety and other temporary accommodation

At the end of the year 1956, the following numbers were detained temporarily in the Institutions shown pending permanent accommodation under the Mental Deficiency Acts:—

Atherleigh Hospital	5	Olive Mount Hospital	6
Calderstones Hospital	1	Redcourt Approved Home	3
Crow Wood Hospital	3	Whitecross Homes	6

Supervision

Male defectives in their own homes have continued to be supervised by Authorised Officers and female defectives by Health Visitors.

Occupation Centres

At the end of 1956 the County Council had four occupation centres, at New Ferry, Altrincham, Macclesfield, and Hyde, which provide much appreciated help to local parents.

A fifth centre was opened at the beginning of September, 1957, at Nantwich, and it is considered that an adequate service throughout the county has been provided so far as children of school age are concerned. Full use is made of special transport, and the only defective children suitable for occupation centres who cannot attend one are one or two isolated cases in rural districts where the cases of transport would be wholly disproportionate.

The present occupation centres provide for children of school age. At a future date consideration will have to be given to those children at occupation centres, both male and female who have passed the age of sixteen, also to persons over the age of sixteen whose parents have never desired their admission to an occupation centre, but who desire them to receive some form of training from which they would benefit without having to be admitted to hospital. This subject is much to the fore in the report of the Royal Commission on mental health and the recommendation of the Ministry of Health on the various aspects involved will be awaited with interest.

It is also thought justifiable to consider the cases of children who have not yet reached the age of five but who it is thought would benefit by admission to an occupation centre.

Discharges from Order

Twenty-nine cases who had been on licence from Institutions were discharged from Order during the year under review.

Prevention of Mental Illness

In last year's report reference was made in some detail to the steps which were being taken to prevent mental illness. These have continued, and considerable assistance has been given both in the

welfare centres and in the schools by the medical officers concerned. The authority given for the appointment of more health visitors will also do much to help.

The valuable work of the County Council Spastic Team has continued, and the Clatterbridge Spastic Centre is now in operation. Both these activities will certainly have a preventive effect in regard to mental deficiency.

General

As in previous years, reports on defectives and on their home conditions have been supplied to Hospital Management Committees on a variety of occasions, e.g. for holiday leave, licensing, and at intervals for the Statutory Visitors. Health Visitors and Authorised Officers have attended Juvenile and other Courts to give evidence in regard to alleged offences by defectives, and when necessary Medical Officers of the Department have attended to give medical evidence.

Co-operation with the Children's Department, and with the Welfare Department has continued as in previous years, and help was given to other authorities on a reciprocal basis in regard to their cases, by way of ascertainment and application for Justices' Orders.

I should like to take the opportunity of acknowledging the ready help given at all times by the Regional Hospital Boards' Bed Bureau, which has again on various occasions found prompt places for cases whose admission was an imperative urgency.

Section X.-Domestic Help

Under Section 29 of the National Health Service Act, 1946, the County Council is empowered to provide a Domestic Help Service for households where such help is required owing to the presence of any person who is ill, lying in, an expectant mother, mentally defective, aged, or a child not over compulsory school age.

The service is one of those which have been devolved to Divisional Health Committees for organisation, administration, and management within the approved estimates. It is not one of the services provided free under the Act, and the Local Health Authority has adopted an appropriate payment scale.

Number of Domestic Helps employed at 31st December, 1956:—

(a) Whole-time 25

(b) Part-time 429

Number of cases in which Domestic Helps were provided under the Council's Scheme during the year:—

Maternity (including expectant mothers)	.....	341
Tuberculosis	.....	24
Chronic sick (including aged and infirm)	.....	1582
Others	.....	300
		<hr/>
	Total	2247
		<hr/>

Section XI.-Home Nursing

Under Section 25 of the National Health Service Act, the County Council has the duty to provide a full service for nursing sick persons at home free of charge to the patient.

Details of the nurses and nurse-midwives employed by the County Council are given earlier in this report, together with their districts.

Small nursing appliances are kept by nurses for loan to their patients; large items such as special beds, wheel chairs, spinal carriages are available at the Divisional Offices. This service forms part of the County Council's arrangements under Section 28 of the Act.

The following statistics give some idea of the scope of the service and the work done:—

(a) Number of Home Nurses at 31/12/56:—	
(1) Whole-time on General Nursing	46
(2) Part-time on General Nursing	131
(b) Equivalent whole-time home nursing service provided in (a) (2)	72
(c) Number of visits paid by Home Nurses, 1956	397,527
(d) Number of cases attended by Home Nurses, 1956	22,592
(e) Number of houses owned by County Council	23
(f) Number of motor vehicles owned by County Council	62
(g) Number of County-owned motor-assisted pedal cycles	2
(h) Number of nurses receiving County allowance for their own cars	84
(i) Number of telephone rentals being paid	143

Section XII.-Handicapped Persons

General

Under Section 29 of the National Assistance Act, 1948, the County Council provides Welfare Services for handicapped persons, and the scheme under this heading has been made the responsibility of the County Health Committee.

The classes of handicapped persons to which the section applies are the blind, the partially sighted, the deaf and dumb, and others substantially and permanently handicapped by illness, injury, congenital deformity, or such other disability as may be prescribed.

Blind Persons

The Council's approved scheme so made continues, with necessary amplification, the scheme carried out in previous years in accordance with the Blind Persons Acts. Its details are executed by the Blind Welfare Societies at Chester, Ashton-under-Lyne, and Macclesfield, with which appropriate financial arrangements have been made. The Welfare Services of these Societies have been extended, so far as they are applicable, to partially sighted persons.

Certification

To ensure that no person's name is placed on the register without the certificate of a medical practitioner with special experience in ophthalmology, all applicants were examined by one of the County Ophthalmologists. Those who so wished were examined a second time under the Medical Referee Service—conducted jointly with the North Regional Association—by independent Medical Referees.

Statistics

Number of Registered Blind Persons in the County at 31st December

	1956
Under 5 years	6
5—16 years	24
16—21 years	12
21—40 years	72
40—50 years	98
50—65 years	274
65—70 years	146
70 years and over	790
Unknown age	—
Total	1422

Registered Blind Persons in County, aged over 16 years, employed,
or otherwise, at 31st December, 1956—

Employed	{ in Workshops & Workrooms	18
	{ as Home workers	18
	{ variously	78
Unemployed		1273
Undergoing Training		4
At School		1

Incidence of Blindness

During the year 1956 there were 330 forms B.D.8 received for the County. These were classified as follows:—

Registered as Blind	210
Registered as Partially Sighted	96
Not registered	24

Follow up:

(i) Number of cases registered during 1956 in respect of which para. 7 (c) of Forms B.D.8 recommended:—	Cause of Disability			
	Cataract	Glaucoma	Retrolental Fibroplasia	Others
(a) No treatment	53	18	1	87
(b) Treatment (medical surgical or optical)	55	21	1	70
(ii) Number of cases at (i) (b) above which on follow-up action have received treatment	29	13	1	45

Ophthalmia Neonatorum

- (i) Total number of cases notified during the year 1
- (ii) Number of cases in which:—
- | | |
|---|-----|
| (a) Vision lost | Nil |
| (b) Vision impaired | Nil |
| (c) Treatment continuing at end of year | Nil |

Workshop Employees

Annual grants were continued on the usual principles to recognised Workshops for Cheshire employees. A "minimum wage" principle has been adopted for certain workers, their income being made up to a nationally agreed fixed amount. On this principle there were 6 male and 3 female employees at Chester, 3 male employees at Macclesfield, 1 male employee at Oldham, 1 male employee at Stoke-on-Trent, 2 males and 1 female at Henshaws, 1 male employee at Warrington, 1 male employee at Stockport and 2 male employees at Liverpool at the end of 1956.

Home Workers

The three voluntary societies arranged for the employment at home of those capable of it. Augmentation in accordance with the National Scheme was given by the Council to all County approved Workers, who numbered 16 at the end of 1956.

National Library for the Blind

Grant and augmentation were made in 1956 to the National Library for the Blind on behalf of 2 Cheshire Home Workers who are Blind Copyists for its northern branch, apart from the usual annual grant for general services, which are used by over 100 Cheshire residents.

Other Services

The usual annual grants were continued in 1956 to the National Institute for the Blind and the North Regional Association for their respective national and regional services. An additional grant was paid to the National Institute in respect of its services in placing blind persons in open industry. Four persons were newly placed during 1956, one person changed employment and a total of 572 visits were made by the Institute's Officers in connexion with this service.

Grants are made when necessary towards training blind persons to work with guide dogs.

Wireless Certificates

213 Certificates entitling the recipients to a free wireless licence were issued in 1956 to applicants on the register.

Deaf Persons

The County is fully covered by voluntary societies for the welfare of the deaf, and financial grants are made by the County Council to these societies, which act as authorised agents for the provision of advice and help, when desired, for the establishment of social centres, and for outings and other recreational activities. A grant is also paid to the North Regional Association for the Deaf in respect of its statistical, co-ordinating, and educational work. The numbers of Cheshire deaf persons on the registers of the Societies are approximately as follows:—

Chester	.....	.....	.....	.....	.....	139
Manchester	.....	.....	.....	.....	.....	185
Liverpool	.....	.....	.....	.....	.....	82
St. Vincent's	.....	.....	.....	.....	.....	2
Warrington	.....	.....	.....	.....	.....	22
					—	
				Total		430
					—	

Other Handicapped Persons

General

The registers of handicapped persons other than the blind, deaf, and dumb are kept by Divisional Medical Officers. They are limited to persons who wish to receive benefits under the approved scheme. General advice is given on overcoming their handicaps, and on how to obtain such help as is available, either under this scheme or under the hospital, local authority, or other aspects of the National Health Service. One example of help under this scheme is adaptation of premises, inside or outside, to facilitate use of an invalid chair or carriage. During 1956 the County Health Committee approved grants towards the cost of adaptations at the homes of ten handicapped persons to help them overcome their difficulties. Assistance in handicrafts is given when possible, with the co-operation of voluntary bodies. The most prominent example of the Council's help to handicapped persons is, of course, Wrenbury Hall Colony (see Section V).

Statistics

The number of persons on the above registers were as follows at 31/12/56:—

M of L class.	Definition	Children under 16		No. on Register Aged 16 — 64		Aged 65 & over		Total
		M.	F.	M.	F.	M.	F.	
A/E	Amputation	3	—	14	11	5	7	40
F	Arthritis and Rheumatism	1	4	15	41	18	81	160
G	Congenital malformations and deformities	26	25	25	45	—	3	124
H/L	Diseases of the digestive and genito-urinary systems; of the heart or circulatory system; of the respiratory system (other than tuber- culosis) and of the skin	38	36	59	83	22	73	311
Q/T	Injuries of the head, face, neck, thorax, abdomen, pel- vis or trunk. Injuries or diseases (other than tuber- culosis) of the upper and lower limbs and of the spine	10	9	32	30	2	9	92
V	Organic nervous diseases— epilepsy, disseminated scler- osis, poliomyelitis, hcmi- plegia, sciatica, etc.	56	43	71	125	6	16	317
U/W	Neuroses, psychoses and other nervous and mental disorders not included in V	4	2	9	42	—	9	66
X	Tuberculosis (respiratory)	17	18	384	307	30	8	764
Y	Tuberculosis (non-respir- atory)	19	20	52	52	1	3	147
Z	Diseases and injuries not specified above	18	13	19	30	4	14	98
Totals		192	170	680	766	88	223	2119

Epileptics and Spastics

The number of persons on the Registers are not necessarily the total number of persons so handicapped. In regard to the above two important classes, the following are estimated totals:—

(a) Epileptics	
(i) Children under 16	153
(ii) Adults	82
(b) Spastics	
(i) Children under 16	195
(ii) Adults	34

Care is taken to ensure that, so far as possible, epileptic and spastic persons receive necessary treatment, education and accommodation and co-ordination is effected when necessary with the residential welfare and the hospital services.

Section XIII. Water Supplies and Sewerage

In 1949 a survey of the water undertakings in Cheshire was made by an engineering inspector of the Ministry of Housing and Local Government. Some thirty-one similar surveys were made covering almost the whole of England and the major industrial areas of Wales. Reports containing recommendations were transmitted to water undertakers and local authorities with a view to the re-grouping of water undertakings into larger units of administration.

This was followed up by the issue of Ministry Circular No. 52/56 in September 1956, to all water undertakers in the country urging that the process of re-grouping should be accelerated so as to secure the most effective use of the water resources of the country and to provide a reliable service at an economic cost. Water undertakers were requested to do their utmost to reach agreement through local discussions on the best re-grouping for their areas.

The survey report on Cheshire and Lancashire recommends that the water undertakings in Cheshire, together with certain adjoining undertakings in Derbyshire and Lancashire should be amalgamated to form five major water authorities.

Discussions are understood to be taking place between the various undertakers in the county with a view to voluntary amalgamation.

Water and sewerage schemes of Rural Authorities qualify for contributions from the County Council and the Ministry of Housing and Local Government under the Rural Water Supplies and Sewerage Act, 1944. Urban Authorities are assisted by the County Council under the provisions of the Public Health Act, 1936.

The following schemes were submitted for approval and financial assistance during the current year:—

Alsager Urban District.

Water supply improvement scheme at an estimated cost of £43,833. The proposed works include the sinking of an additional borewell at Foxley Gorse, Audley, Staffordshire, the laying of 1,552 yards of 9 inch pumping main from the proposed borewell to the existing waterworks and the enlargement of the Merelake reservoir from 22,000 to 664,000 gallons capacity.

A Ministerial Inquiry into this scheme was held in October, 1956, at which the County Council made a representation requesting consideration of an alternative means of obtaining water from the existing 9-inch main of the Mid and S.E. Cheshire Water Board which passes through the centre of the Urban District.

Longdendale Urban District.

Works of water supply at an estimated cost of £28,230. The scheme provides for the improvement of unsatisfactory pressure in the higher part of Mottram by the construction of a pumping station at Mottram, fed by a short branch from an existing main, together with 1,170 yards of 6-inch pumping main delivering to a new 200,000 gallons capacity storage reservoir at Roc Cross. In addition 900 yards of 3-inch main are being laid to serve premises in the Mill Hill area.

Mid. and S.E. Cheshire Water Board.

Works of water supply at an estimated cost of £42,730. The scheme provides for the laying of a total length of 26,800 yards of 6, 4 and 3-inch distribution mains to give a piped supply to 33 cottages and 33 farms in the Rushton and Wettenhall areas of Northwich Rural District.

Congleton Borough.

Water main extension at an estimated cost of £988. The scheme provides for the laying of 435 yards of 6-inch main in Holmes Chapel Road to replace an existing defective 4-inch main.

Electrification of Forge Lane Waterworks Pumping Station at an estimated cost of £2,746. This includes the replacement of three 75 H.P. diesel engines by electric motors and the installation of automatic control equipment.

Bredbury and Romiley Urban District.

Works of water supply for the improvement of inadequate pressure in the higher parts of the Urban District. The scheme includes the laying of 1,550 yards of 6-inch relief main from Greave Fold Reservoir to the eastern end of Compstall Road and 700 yards of 4 inch main feeding a new 2,000 gallons storage tank serving houses in Pinfold Lane.

Congleton Rural District.

Works of sewerage and sewage disposal for residential development in the parish of Somerford, adjoining the western boundary of Congleton, at an estimated cost of £10,475.

Ellesmere Port Borough.

Works of sewerage and sewage disposal for the village of Ince at an estimated cost of £22,068.

Hale Urban District.

Replacement of an overloaded and inefficient sewage ejector serving the Carr Wood Estate. Estimated cost £3,310.

Northwich Rural District.

Works of sewerage for residential development in the parish of Allostock adjacent to the Western boundary of the village of Goostrey.

Sewage will be pumped into the Goostrey sewerage system and treated at Goostrey Sewage Works by agreement with Congleton Rural Council.

Works of sewerage for the village of Anderton at an estimated cost of £13,500. Sewage will be pumped to Barnton Sewage Disposal Works for treatment.

Runcorn Rural District.

Works of sewerage for the village of Frodsham at an estimated cost of £53,300.

Wirral Urban District.

Works of sewerage in the Fender Valley at an estimated cost of £230,233. The scheme includes laying 9,532 yards of relief sewers varying from 12 to 42 inches in diameter and the construction of storm water tanks on three separate sites along the route of the relief sewers.

Appendix of Statistics

1956

TABLE A

Deaths by Causes.—Sex—
■ Each County District.

TABLE B

Deaths by Causes.—Sex; Age—
■ Urban Districts, Rural Districts,

TABLE C

Statistical Summary of enumerated and estimated population, area, births and deaths, birth rate and death rate, deaths of infants, infantile mortality, deaths from each of principal zymotic diseases, corresponding zymotic death rate, for each County District.

TABLE A (Urban i).

CAUSES OF DEATH.	Alderley Edge U.D.		Alsager U.D.		Altrincham M.B.		Bebington M.B.		Bollington U.D.		Bowdon U.D.		Bredbury and Romiley U.D.		Cheadle and Gatley U.D.		Congleton M.B.		Crewe M.B.		Dukinfield M.B.		Ellesmere Port U.D.		Hale U.D.		Hazel Grove and Bramhall U.D.		Hoole U.D.		Hoylake U.D.	
	M. 20	F. 22	M. 27	F. 19	M. 236	F. 226	M. 255	F. 244	M. 37	F. 32	M. 18	F. 33	M. 105	F. 81	M. 162	F. 193	M. 103	F. 83	M. 301	F. 212	M. 93	F. 111	M. 128	F. 105	M. 72	F. 61	M. 107	F. 129	M. 51	F. 46	M. 151	F. 200
ALL CAUSES — — —																																
1 Tuberculosis, Respiratory	1	—	—	—	2	2	3	1	—	—	—	—	1	—	4	—	1	1	7	1	3	—	4	—	1	—	1	—	1	—	2	1
2 Tuberculosis, Other —	—	—	—	—	—	—	—	1	—	—	—	—	—	—	1	—	1	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—
3 Syphilitic Disease —	—	—	—	—	2	1	1	1	—	—	—	—	1	—	1	—	1	1	1	—	—	1	1	—	1	—	1	—	—	—	2	—
4 Diphtheria — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5 Whooping Cough —	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
6 Meningococcal Infections	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7 Acute Poliomyelitis —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—
8 Measles — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9 Other Infective and Parasitic Diseases	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	1	—	1	—	2	—	—	—	—	—	—	—	—	—
10 Malignant Neoplasm, Stomach	—	—	1	—	10	11	12	11	3	—	1	1	3	—	5	2	9	2	8	9	8	6	5	5	2	1	4	3	—	3	5	3
11 Malignant Neoplasm, Lung Bronchus	—	—	—	—	14	2	12	4	3	—	1	—	7	—	11	1	2	1	14	2	6	2	6	2	4	1	5	1	2	1	8	3
12 Malignant Neoplasm, Breast	—	1	—	—	—	7	—	7	—	3	—	—	—	3	—	8	—	3	—	6	—	4	—	4	—	1	—	6	—	2	—	9
13 Malignant Neoplasm, Uterus	—	—	—	1	—	6	—	8	—	1	—	—	—	3	—	5	—	1	—	7	—	1	—	2	—	1	—	2	—	—	—	3
14 Other Malignant and Lymphatic Neoplasms	—	2	1	—	24	22	19	23	2	1	4	1	15	11	10	15	8	5	30	19	6	9	12	5	1	6	5	7	7	2	18	23
15 Leukaemia, Aleukaemia	—	—	1	—	—	2	2	3	—	1	—	—	—	1	1	2	2	—	1	1	—	2	—	1	—	1	—	—	—	1	1	—
16 Diabetes — —	—	—	—	—	2	1	—	1	—	—	—	1	1	1	1	1	—	—	—	—	—	1	—	2	—	—	1	—	1	1	—	—
17 Vascular Lesions of Nervous System	2	1	2	6	30	40	42	44	2	8	4	9	11	13	17	40	13	19	30	30	12	25	17	17	14	12	15	17	4	6	18	28
18 Coronary Disease, Angina	3	4	6	3	42	23	48	34	7	2	2	2	17	6	34	19	16	6	63	22	10	4	21	10	19	6	24	17	10	1	33	15
19 Hypertension with Heart Disease	—	1	—	—	6	13	5	10	2	—	—	1	2	4	3	6	—	1	7	7	1	1	5	4	2	—	4	1	4	2	2	13
20 Other Heart Disease—	1	3	1	—	37	40	32	46	2	5	1	13	17	17	21	28	24	15	38	49	13	20	10	25	13	15	16	28	6	10	14	34
21 Other Circulatory Disease	1	1	1	1	5	6	3	9	2	4	—	1	10	1	9	13	—	5	5	6	4	2	5	2	2	4	9	11	4	4	7	8
22 Influenza — —	1	1	1	—	2	2	—	1	1	—	—	1	1	2	3	1	—	—	2	1	1	3	—	—	—	—	—	—	—	—	—	6
23 Pneumonia — —	1	1	2	—	9	8	4	6	2	—	—	—	—	1	3	11	2	2	9	5	2	1	3	5	2	3	—	3	2	2	8	8
24 Bronchitis — —	3	2	3	—	17	11	21	4	2	3	—	1	3	4	9	9	3	5	32	17	10	4	12	1	2	2	7	2	2	3	8	8
25 Other Diseases of Respiratory System	—	—	—	—	—	1	2	—	—	—	1	—	1	1	—	—	1	3	3	1	—	1	1	1	—	1	3	—	—	2	2	
26 Ulcer of Stomach and Duodenum	—	—	—	—	5	—	7	—	—	—	—	—	2	1	1	—	2	—	3	2	2	—	3	2	1	—	—	1	2	1	3	2
27 Gastritis, Enteritis and Diarrhoea	—	—	1	1	—	—	2	—	2	—	—	—	—	1	1	—	—	1	—	1	—	—	—	—	1	—	—	1	—	—	2	
28 Nephritis and Nephrosis	—	—	2	1	—	—	4	3	—	—	—	—	—	2	4	1	3	1	4	—	1	1	—	2	—	1	—	—	1	2	8	
29 Hyperplasia of Prostate	—	—	—	—	1	—	2	—	1	—	—	—	2	—	5	—	1	—	5	—	1	—	1	—	—	—	3	—	1	—	2	—
30 Pregnancy, Childbirth, Abortion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—
31 Congenital Malformations	—	1	1	2	—	2	2	2	1	—	—	—	—	1	1	1	—	—	—	1	—	—	1	2	—	—	—	—	—	—	2	4
32 Other Defined and Ill-defined Diseases	4	3	3	4	15	15	15	16	2	3	3	2	9	6	10	27	11	7	25	18	9	15	11	11	5	5	8	19	2	4	10	15
33 Motor Vehicle Accidents	3	—	—	—	3	4	5	2	1	—	—	—	—	—	3	—	—	—	4	—	—	1	1	1	—	—	1	1	—	2	1	
34 All Other Accidents—	—	1	1	—	6	6	9	4	1	1	—	—	1	2	2	2	2	3	3	2	3	2	4	—	—	—	—	4	1	1	2	2
35 Suicide — —	—	—	—	—	4	—	2	2	1	—	1	—	1	—	2	1	1	—	7	3	1	4	3	—	3	—	2	2	—	1	—	2
36 Homicide & Operations of War	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LIVE BIRTHS—Total —	32	15	45	40	266	269	341	302	40	36	26	31	148	110	210	187	116	116	430	379	132	117	358	349	60	63	110	130	68	72	181	187
Legitimate	29	15	43	40	255	263	327	295	39	35	25	30	145	106	204	183	113	111	408	344	130	115	345	342	59	62	106	125	64	68	177	178
Illegitimate	3	—	2	—	11	6	14	7	1	1	1	1	3	4	6	4	3	5	22	35	2	2	13	7	1	1	4	5	4	4	4	9
STILLBIRTHS—Total —	1	—	1	—	6	5	10	8	2	2	1	2	2	2	2	3	3	4	9	14	2	5	8	7	2	1	3	2	1	3	2	4
Legitimate	1	—	1	—	5	5	9	8	2	2	1	2	2	2	2	3	3	3	7	14	2	5	8	7	2	1	3	2	1	3	2	4
Illegitimate	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Deaths of Infants (under one year) {																																
Total	2	1	3	4	3	3	12	9	1	—	—	—	2	3	3	8	4	3	15	13	3	5	8	8	1	2	2	3	—	3	2	8
Legitimate	2	1	3	4	3	3	11	9	1	—	—	—	2	3	3	8	4	3	15	11	2	5	8	8	1	2	2	3	—	3	2	8
Illegitimate	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	2	1	—	—	—	—	—	—	—	—	—	—	—
Deaths of Infants (under 4 weeks of age) {																																
Total	2	1	2	3	3	1	10	5	—	—	—	—	2	2	2	6	3	1	12	9	2	4	7	4	1	1	2	2	—	2	2	6
Legitimate	2	1	2	3	3	1	9	5	—	—	—	—	2	2	2	6	3	1	12	8	1	4	7	4	1	1	2	2	—	2	2	6
Illegitimate	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—

TABLE A—(Rural).

CAUSES OF DEATH.	Bucklow R.D.		Chester R.D.		Congleton R.D.		Disley R.D.		Macclesfield R.D.		Nantwich R.D.		Northwich R.D.		Runcorn R.D.		Tarvin R.D.		Tintwistle R.D.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
ALL CAUSES — — —	58	57	155	182	129	127	13	18	106	97	165	122	186	159	207	161	81	78	7	7
1 Tuberculosis, Respiratory — — —	—	—	3	—	1	—	—	—	1	1	2	1	3	—	1	1	—	—	—	—
2 Tuberculosis, Other — — —	—	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3 Syphilitic Disease — — —	—	—	1	1	1	—	—	—	2	—	—	—	1	—	—	—	—	—	—	—
4 Diphtheria — — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5 Whooping Cough — — —	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—
6 Meningococcal Infections — — —	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	1	—	—	—
7 Acute Poliomyelitis — — —	—	—	—	—	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—	—
8 Measles — — —	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—
9 Other Infective and Parasitic Diseases — — —	—	1	3	—	—	—	—	—	—	—	2	—	1	—	—	1	—	—	—	—
10 Malignant Neoplasm, Stomach — — —	2	—	3	4	7	—	1	1	8	7	9	3	5	5	10	2	2	3	—	—
11 Malignant Neoplasm, Lung Bronchus — — —	4	3	5	3	2	—	—	—	3	2	4	2	4	1	8	3	1	2	—	—
12 Malignant Neoplasm, Breast — — —	—	3	—	3	—	3	—	—	—	4	—	4	—	5	—	8	—	3	—	—
13 Malignant Neoplasm, Uterus — — —	—	1	—	3	—	3	—	—	—	—	—	5	—	1	—	2	—	1	—	1
14 Other Malignant and Lymphatic Neoplasms — — —	1	4	8	8	14	7	—	1	15	6	11	12	10	16	20	7	5	7	1	—
15 Leukaemia, Aleukaemia — — —	—	1	—	1	—	—	—	—	1	—	1	—	1	2	2	—	—	—	—	—
16 Diabetes — — —	—	—	—	—	—	1	2	—	1	1	1	4	1	1	4	2	1	—	—	—
17 Vascular Lesions of Nervous System — — —	8	12	26	42	13	12	3	5	9	26	26	19	27	23	28	30	10	17	—	—
18 Coronary Disease, Angina — — —	10	5	20	22	8	7	2	2	20	7	21	11	22	13	37	22	9	7	3	—
19 Hypertension with Heart Disease — — —	—	—	3	2	—	—	1	—	1	1	2	4	2	4	2	6	—	—	—	—
20 Other Heart Disease — — —	9	10	37	49	10	10	2	3	18	18	33	28	24	34	16	24	29	23	—	3
21 Other Circulatory Disease — — —	2	4	3	8	8	3	—	1	6	4	6	5	8	5	11	8	2	1	—	1
22 Influenza — — —	2	1	—	—	—	1	—	—	1	—	3	1	2	—	—	1	2	2	—	—
23 Pneumonia — — —	—	3	5	5	4	—	—	—	3	2	4	1	12	7	6	2	6	1	—	1
24 Bronchitis — — —	2	3	4	1	2	3	—	—	2	2	5	2	10	9	16	13	1	2	1	—
25 Other Diseases of Respiratory System — — —	1	—	1	—	—	1	—	—	—	2	2	—	—	3	—	1	—	1	—	—
26 Ulcer of Stomach and Duodenum — — —	1	—	2	—	—	—	—	—	1	—	6	—	—	2	1	—	1	1	—	—
27 Gastritis, Enteritis and Diarrhoea — — —	—	—	1	—	1	2	—	—	—	—	—	—	1	1	1	—	—	—	—	—
28 Nephritis and Nephrosis — — —	—	—	2	1	—	3	—	—	1	—	2	3	6	3	2	3	4	1	—	—
29 Hyperplasia of Prostate — — —	1	—	1	—	3	—	1	—	1	—	3	—	4	—	4	—	3	—	—	—
30 Pregnancy, Childbirth, Abortion — — —	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—
31 Congenital Malformations — — —	—	—	3	—	1	—	—	1	—	—	3	1	3	1	1	1	—	—	—	—
32 Other Defined and Ill-defined Diseases — — —	11	6	12	23	45	69	1	4	8	10	12	13	21	15	21	21	2	2	—	—
33 Motor Vehicle Accidents — — —	3	—	2	1	1	1	—	—	1	1	2	1	5	2	9	1	1	—	—	—
34 All Other Accidents — — —	—	—	6	2	7	—	—	—	2	3	3	1	9	5	3	2	2	2	1	1
35 Suicide — — —	—	—	3	—	1	1	—	—	—	—	1	1	2	1	3	—	—	—	1	—
36 Homicide & Operations of War — — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LIVE BIRTHS—Total — — —	110	102	186	162	93	92	10	19	136	132	206	180	446	442	229	259	129	111	12	14
Legitimate — — —	104	95	184	161	93	90	10	19	134	124	201	176	436	426	214	251	123	103	12	14
Illegitimate — — —	6	7	2	1	—	2	—	—	2	8	5	4	10	16	15	8	6	8	—	—
STILLBIRTHS —Total — — —	1	1	8	5	4	2	1	—	2	6	1	7	9	8	3	3	2	3	—	—
Legitimate — — —	1	1	8	5	4	2	1	—	1	5	1	7	8	8	3	3	1	3	—	—
Illegitimate — — —	—	—	—	—	—	—	—	—	1	1	—	—	1	—	—	—	1	—	—	—
Deaths of Infants (under one year) { Total — — —	2	1	8	2	1	1	—	2	3	1	6	7	19	7	8	3	3	1	—	—
Legitimate — — —	2	1	7	2	1	1	—	2	3	1	6	7	18	6	7	3	3	1	—	—
Illegitimate — — —	—	—	1	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—
Deaths of Infants (under 4 weeks of age) { Total — — —	1	1	7	1	1	—	—	1	2	1	4	5	7	6	5	3	—	1	—	—
Legitimate — — —	1	1	6	1	1	—	—	1	2	1	4	5	7	5	4	3	—	1	—	—
Illegitimate — — —	—	—	1	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—

TABLE A—(Urban ii).

CAUSES OF DEATH.		Hyde M.B.		Knutsford U.D.		Longden- dale U.D.		Lymm U.D.		Maccles- field M.B.		Marple U.D.		Middle- wich U.D.		Nantwich U.D.		Neston U.D.		Northwich U.D.		Runcorn U.D.		Sale M.B.		Sandbach U.D.		Staly- bridge M.B.		Wilmslow U.D.		Winsford U.D.		Wirral U.D.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
ALL CAUSES		206	207	71	86	37	26	43	41	225	251	87	85	45	29	122	167	50	53	109	87	114	107	237	207	47	44	147	146	83	91	68	69	88	109
1	Tuberculosis, Respiratory	6	2	1	1					1	2	1		1		3			2	4		5	1	3		1	1	1		1			2	1	2
2	Tuberculosis, Other	1								1																						1			
3	Syphilitic Disease	1							1							2	2					1												1	
4	Diphtheria																																		
5	Whooping Cough																																		
6	Meningococcal Infections																																		
7	Acute Poliomyelitis											1														1									
8	Measles							1				1				1																			
9	Other Infective and Parasitic Disease			1	1		1				1							1						1				1					2		
10	Malignant Neoplasm, Stomach	2	4	2	1	2	2	2	6	3	12	6	2	2		6	2	1		4	5	5	3	10	4	2	1	5	6	1		3	4	1	4
11	Malignant Neoplasm, Lung Bronchus	8	1	7	1	3		2		5	2	2		5	1	5	1	2	2	6	1	5	1	14	1	2	1	8		5	1	1		2	3
12	Malignant Neoplasm, Breast		7		1						8		1		1		4		2		2		3		12		1		8		5		2		2
13	Malignant Neoplasm, Uterus		4				1		1		3		1		1			1		1		1		4				1		2		4		3	
14	Other Malignant and Lymphatic Neoplasms	19	16	11	5	5	2	5	5	15	22	7	17	9	4	7	3	5	5	5	10	8	8	21	24	5	4	13	7	8	11	4	6	10	10
15	Leukaemia, Aleukaemia					2				1			1				1			1				1				1	1	2					
16	Diabetes		1		1				1		1		1			1	2					3		5				1		2					2
17	Vascular Lesions of Nervous System	23	31	8	31	2	8	7	6	16	37	14	10	6	7	27	51	3	12	10	18	15	25	27	44	6	8	16	25	8	18	6	11	11	16
18	Coronary Disease, Angina	26	12	10	1	6	4	10	6	58	23	13	3	4	3	13	5	7	1	14	8	16	8	40	19	8	5	21	8	21	21	20	9	22	9
19	Hypertension with Heart Disease		1	1						4	1		3			1	2	2	1	1	1	4	4	1	7				1	2		1		1	8
20	Other Heart Disease	40	58	19	30	4	1	5	11	51	82	9	15	8	5	40	71	11	11	22	21	17	20	37	25	3	5	20	32	9	11	11	9	11	22
21	Other Circulatory Disease	7	9		1		2	1	1	8	11	4	5	1				1	3	6	7	8	4	12	16	1	2	7	6	3	4	1	1	3	7
22	Influenza	6	8	1		2				2	7	2	4		1			3	1					3	3			3	3	1	1		2		1
23	Pneumonia	8	6		3	1	1			14	6	1	1			1		1		6	1	1	4	11	4	1	2	6	8		2		1	3	2
24	Bronchitis	24	13	2	1	2		3	1	12	4	10	4	1		3		1		6	2	10	8	24	10	2		19	19	6	1	5		6	3
25	Other Diseases of Respiratory System	3	1					1		4	1		2	1	1					2		1		4				1	1	2	3			3	
26	Ulcer of Stomach and Duodenum	4	2				1			3	1			2	1	2	1	2		2		2		5				4		1		1		2	
27	Gastritis, Enteritis and Diarrhoea	2	1								2		1				1			1										1			1		
28	Nephritis and Nephrosis	4	3							1	4	1	1			2	3		2	3	1	2		4		1	2	4	3	1		1	2		
29	Hyperplasia of Prostate	4		1		2		1		3		2		1						1		2		1				3		1				2	
30	Pregnancy, Childbirth, Abortion																1					1		1				1							
31	Congenital Malformations	1	1		1					3		1			1	1	1	2	1		1		1		1		1	1			1				2
32	Other Defined and Ill-defined Diseases	13	24	4	5	2	3	2	2	13	16	7	10	1	3	2	8	5	7	10	5	8	8	16	22	9	10	5	12	7	6	10	12	4	11
33	Motor Vehicle Accidents	1						2			1	1	2	1		1	1	2		1				1	2		1	2		3			1	2	
34	All Other Accidents	3	2	2	1	4		1		4	4	3		1		2	9		1	4	1	2	2	1	1	5		3	2		1	2	1	1	1
35	Suicide				1					3		1	1			1				1	1	1	2	1	1			3	1	1			1	1	
36	Homicide & Operations of War			1										1		1						1													
LIVE BIRTHS—Total		216	184	57	48	30	35	41	43	256	226	101	97	57	58	60	59	82	70	103	87	214	214	336	268	65	68	168	168	116	119	122	91	115	113
Legitimate		207	176	54	46	28	34	41	38	246	213	100	90	56	57	60	59	80	66	102	83	207	209	326	259	63	67	157	161	110	112	118	83	113	108
Illegitimate		9	8	3	2	2	1		5	10	13	1	7	1	1			2	4	1	4	7	5	10	9	2	1	11	7	6	7	4	8	2	5
STILLBIRTHS—Total		2	4	3				1		6	5	3	1	1	2		4	3	2	4		4	5	7	7	2	1	6	2	1	2	6	2	2	3
Legitimate		2	4	3				1		5	4	3	1	1	2		4	2	2	4		3	5	5	7	2	1	6	2	1	1	4	2	2	3
Illegitimate										1	1							1				2						1	1						
Deaths of Infants (under one year)		Total	5	4			1	1		5	5	3	2			1	3	3	2	6	1	4	5	4	5	3	2	5	3		2	3		3	2
		Legitimate	5	4			1	1		5	3	3	1			1	2	3	2	6	1	4	3	4	5	3	2	4	2		2	3		2	2
		Illegitimate									2		1				1						2					1	1					1	
Deaths of Infants (Under 4 weeks of age)		Total	2	4						1	3	3	2			1	2	3	2	5		4		4	3	1	2	2	3		2	3		1	2
		Legitimate	2	4						1	1	3	1			1	1	3	2	5		4		4	3	1	2	1	2		2	3		1	2
		Illegitimate									2		1				1												1	1					

TABLE B

CAUSES OF DEATH.	Sex.	AGGREGATE OF URBAN DISTRICTS.										AGGREGATE OF RURAL DISTRICTS.									
		All Ages	0—	1—	5—	15—	25—	45—	65—	75—	All Ages	0—	1—	5—	15—	25—	45—	65—	75—		
ALL CAUSES — — —	M	3645	106	30	21	23	178	1095	1040	1152	1107	50	11	7	22	57	274	286	400		
	F	3602	110	20	12	12	141	715	961	1631	1008	25	6	6	4	42	186	272	467		
1 Tuberculosis, Respiratory — — —	M	60	—	—	—	1	13	34	8	4	11	—	—	—	—	1	5	5	—		
	F	19	—	1	—	—	9	4	4	1	3	—	—	—	—	1	—	1	—		
2 Tuberculosis, Other — — —	M	5	—	—	1	—	—	2	1	1	1	—	—	—	—	—	—	—	—		
	F	3	—	—	—	—	—	2	—	1	2	—	1	—	—	1	—	—	—		
3 Syphilitic Disease — — —	M	17	—	—	—	—	2	7	3	5	5	—	—	—	—	—	2	2	1		
	F	7	—	—	—	—	1	4	1	1	1	—	—	—	—	—	1	—	—		
4 Diphtheria — — —	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
5 Whooping Cough — — —	M	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—		
	F	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
6 Meningococcal Infections — — —	M	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—		
	F	—	—	—	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—		
7 Acute Poliomyelitis — — —	M	2	—	—	—	—	2	—	—	—	2	—	1	—	1	—	—	—	—		
	F	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
8 Measles — — —	M	3	—	3	—	—	—	—	—	—	2	—	—	1	—	—	1	—	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
9 Other Infective and Parasitic Disease — — —	M	7	1	—	1	—	2	2	—	1	6	—	1	—	—	3	2	—	—		
	F	8	—	1	—	—	4	—	3	—	2	—	—	—	—	1	1	—	—		
10 Malignant Neoplasm, Stomach — — —	M	133	—	—	—	—	4	53	44	32	47	—	—	—	—	2	21	16	8		
	F	113	—	—	—	—	3	32	42	36	25	—	—	—	—	—	3	9	13		
11 Malignant Neoplasm, Lung Bronchus — — —	M	177	—	—	—	—	7	102	53	15	31	—	—	—	—	3	21	3	4		
	F	36	—	—	—	—	3	19	12	2	16	—	—	—	—	2	7	5	2		
12 Malignant Neoplasm, Breast — — —	M	—	—	—	—	—	12	55	33	23	33	—	—	—	—	4	15	6	8		
	F	123	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
13 Malignant Neoplasm, Uterus — — —	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	F	69	—	—	—	—	4	35	18	12	17	—	—	—	—	1	6	4	6		
14 Other Malignant and Lymphatic Neoplasms — — —	M	319	—	1	2	2	20	95	106	93	85	—	—	1	4	18	27	35	—		
	F	310	—	3	3	2	21	111	79	91	68	—	1	—	6	21	21	—	18		
15 Leukaemia, Aleukaemia — — —	M	15	—	2	2	1	2	4	4	—	5	—	—	—	1	2	2	—	—		
	F	19	—	1	1	2	4	6	5	—	4	—	—	—	1	—	3	—	—		
16 Diabetes — — —	M	7	—	—	—	—	1	6	—	—	10	—	—	1	1	—	2	4	2		
	F	29.	—	—	—	—	1	4	13	11	9	—	—	—	—	4	2	—	3		
17 Vascular Lesions of Nervous System — — —	M	438	—	—	—	1	7	94	136	200	150	—	—	—	—	1	26	46	77		
	F	673	1	—	—	—	2	123	204	343	186	—	—	—	—	3	34	61	88		
18 Coronary Disease, Angina — — —	M	664	—	—	—	—	22	257	233	152	152	—	—	—	—	4	54	54	40		
	F	319	—	—	—	—	5	68	132	114	96	—	—	—	—	—	22	39	35		
19 Hypertension with Heart Disease — — —	M	61	—	—	—	—	17	20	24	24	11	—	—	—	—	4	2	—	5		
	F	93	—	—	—	1	10	30	52	52	17	—	—	—	—	2	3	—	12		
20 Other Heart Disease — — —	M	563	—	1	—	1	14	91	153	303	178	1	—	1	—	4	31	42	99		
	F	778	—	—	—	1	18	70	181	508	202	—	—	—	1	6	15	54	126		
21 Other Circulatory Disease — — —	M	130	—	—	—	—	2	26	41	61	46	—	—	—	—	1	10	11	25		
	F	157	—	—	1	—	2	14	38	102	40	—	—	—	—	1	3	13	23		
22 Influenza — — —	M	35	—	—	—	—	1	12	16	6	10	—	—	—	—	—	4	5	1		
	F	49	—	—	—	—	4	6	11	28	6	—	—	—	—	—	—	—	6		
23 Pneumonia — — —	M	103	15	2	—	2	3	29	28	24	40	14	3	1	—	1	7	7	7		
	F	97	19	5	2	—	4	13	15	39	21	4	1	—	—	3	4	4	9		
24 Bronchitis — — —	M	270	1	—	—	—	4	95	92	78	43	1	—	—	—	—	9	16	17		
	F	142	2	1	—	—	2	24	34	79	35	—	—	—	—	1	4	10	20		
25 Other Diseases of Respiratory System — — —	M	34	2	1	—	—	4	15	8	4	4	—	—	—	—	1	2	—	1		
	F	22	—	2	—	2	2	5	6	5	8	—	1	1	—	1	3	—	2		
26 Ulcer of Stomach and Duodenum — — —	M	61	—	—	—	—	6	33	14	8	12	—	—	—	—	6	4	2	—		
	F	15	—	—	—	—	—	6	6	3	3	—	—	—	—	1	1	—	1		
27 Gastritis, Enteritis and Diarrhoea — — —	M	11	—	2	—	—	4	—	4	1	4	3	—	—	—	—	1	—	—		
	F	13	3	—	—	—	—	1	2	7	3	—	—	—	—	2	—	—	1		
28 Nephritis and Nephrosis — — —	M	44	—	—	—	—	11	13	7	13	17	—	—	—	—	4	3	3	7		
	F	42	—	—	1	—	4	15	10	12	14	—	—	—	—	5	3	—	6		
29 Hyperplasia of Prostate — — —	M	49	—	—	—	—	—	3	10	36	21	—	—	—	—	2	8	—	11		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
30 Pregnancy, Childbirth, Abortion — — —	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	F	5	—	—	—	—	5	—	—	—	2	—	—	—	—	—	—	—	—		
31 Congenital Malformations — — —	M	17	9	2	—	1	2	2	1	—	11	8	1	—	—	1	—	—	—		
	F	28	21	2	1	—	1	1	—	2	4	3	—	—	—	—	—	—	—		
32 Other Defined and Ill-defined Diseases — — —	M	260	72	7	6	1	13	56	64	65	133	19	1	1	6	10	25	25	46		
	F	333	56	2	2	1	22	66	40	120	164	17	1	3	1	11	26	27	78		
33 Motor Vehicle Accidents — — —	M	41	—	2	3	6	11	9	3	7	24	—	2	1	7	8	4	1	—		
	F	18	—	—	1	1	5	4	1	6	7	—	—	2	—	3	—	—	2		
34 All Other Accidents — — —	M	73	6	7	6	5	9	18	5	17	33	2	2	1	4	7	7	1	9		
	F	56	6	1	—	1	1	7	10	30	16	1	1	—	—	2	4	—	7		
35 Suicide — — —	M	42	—	—	—	2	11	18	9	2	11	—	—	—	1	2	6	—	2		
	F	23	—	—	—	1	2	10	7	3	3	—	—	—	—	3	—	—	—		
36 Homicide and Operations of War — — —	M	4	—	—	—	—	1	2	1	—	—	—	—	—	—	—	—	—	—		
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		



TABLE C

SANITARY DISTRICTS.	Population at Census, 1951.	Estimated Population in middle of 1953.	Area in Acres 1953	Illegitimate Births	Still Births.	Total Live Births.	Live Birth rate per 1000	Deaths	Death-rate per 1000	Deaths from				Deaths from Principal Zymotic Diseases	Principal Zymotic Diseases Death-rate	No. of Deaths under one year	Deaths under one year to 1000 Births	No. of Deaths under four weeks	Deaths under four weeks to 1000 Births	Medical Officers of Health and Divisional Officers at 31/12/53.
										Measles	Diphtheria	Whooping Cough	Gastritis, Enteritis and Diarrhoea							
Column Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MUNICIPAL BOROUGHS																				
Altrincham	39789	39780	3477	17	11	535	13.4	462	11.6	—	—	—	—	—	—	6	11	4	7	Dr. D. Longbottom Dr. D. O. Macdonald Dr. L. Rich Dr. D. G. Crawshaw Dr. T. Holme Dr. F. W. C. Brown Dr. H. R. Dugdale Dr. A. T. Burn Dr. T. Holme
Bebington	47844	48220	12234	21	18	643	13.3	499	10.3	—	—	1	2	3	.06	21	33	15	23	
Congleton	15502	15540	5587	8	7	232	14.9	186	12.0	—	—	—	1	1	.06	7	30	4	17	
Crewe	52423	52150	4386	57	23	809	15.5	513	9.8	—	—	1	1	2	.04	28	35	21	26	
Dukinfield	18451	18420	1725	4	7	249	13.5	204	11.1	—	—	—	—	—	—	8	32	6	24	
Hyde	31494	31780	4170	17	6	400	12.6	413	13.0	—	—	—	—	3	.09	9	23	6	15	
Macclesfield	35999	35440	4640	23	11	482	13.6	476	13.4	—	—	—	2	2	.06	10	21	4	8	
Sale	43168	43130	3629	19	14	604	14.0	444	10.3	—	—	—	—	—	—	9	15	7	12	
Stalybridge	22541	22510	3190	18	8	336	14.9	293	13.0	—	—	—	—	—	—	8	24	5	15	
Total Municipal Boroughs	307211	306970	43038	184	105	4290	14.0	3490	11.4	—	—	2	9	11	.04	106	25	72	17	
OTHER URBAN DISTRICTS																				
Alderley Edge	3689	3722	699	3	1	47	12.6	42	11.3	—	—	—	—	—	—	3	64	3	64	Dr. D. G. Anderson *Dr. H. P. Harpur Dr. H. R. Dugdale Dr. D. Longbottom Dr. T. W. Brindle Dr. D. G. Anderson Dr. W. J. Birchall Dr. D. Longbottom Dr. T. W. Brindle †Dr. Mary Russell Dr. J. Hatton Dr. D. Longbottom Dr. F. W. C. Brown Dr. A. T. Burn Dr. T. W. Brindle Dr. W. S. Slater Dr. R. K. Hay Dr. J. Hatton Dr. W. S. Slater Dr. E. N. H. Gray Dr. L. Rich Dr. D. G. Anderson Dr. W. S. Slater Dr. J. Hatton
Alsager	5575	5679	2241	2	1	85	15.0	46	8.1	—	—	—	2	2	.35	7	82	5	59	
Bollington	5313	5390	1442	2	4	76	14.1	69	12.8	—	—	—	2	2	.35	1	13	—	—	
Bowdon	3529	3598	1090	2	3	57	15.8	51	14.2	—	—	—	—	—	—	—	—	—	—	
Bredbury & Romiley	*17667	17590	4290	7	4	258	14.7	186	10.6	—	—	—	1	1	.06	5	19	4	16	
Cheadle & Gatley	31511	31540	5299	10	5	397	12.6	355	11.3	—	—	—	—	—	.03	11	28	8	20	
Ellesmere Port	32653	34470	9144	20	15	707	20.5	233	6.8	—	—	—	1	1	.03	16	23	11	16	
Hale	12152	11800	2264	2	3	123	10.4	133	11.3	—	—	—	—	—	—	3	24	2	16	
Hazel Grove and Bramhall	19674	20010	5990	9	5	240	12.0	236	11.8	—	—	—	1	1	.08	5	21	4	17	
Hoole	9058	9286	672	8	4	140	15.1	97	10.4	—	—	—	—	—	—	3	21	2	14	
Hoyle	30936	30620	5996	13	6	368	12.0	351	11.5	—	—	—	2	2	.07	10	27	8	22	
Knutsford	6617	6805	2485	5	3	105	15.4	157	23.1	—	—	—	—	—	—	—	—	—	—	
Longendale	4591	4450	3545	3	—	65	14.6	63	14.2	—	—	—	—	—	—	—	—	—	—	
Lymm	6412	6371	4241	5	1	84	13.2	84	13.2	1	—	—	—	1	.16	1	15	—	—	
Marple	13073	13160	7130	8	4	198	15.0	172	13.1	1	—	—	—	—	.15	1	12	—	—	
Middlewich	6736	6813	1971	2	3	115	16.9	74	10.9	1	—	—	1	2	.15	5	25	5	25	
Nantwich	8843	9034	1177	—	4	119	13.2	289	32.0	—	—	—	—	—	—	—	—	—	—	
Neston	9726	9922	8495	6	5	152	15.3	103	10.4	1	—	—	1	2	.22	4	34	3	25	
Northwich	17489	16470	2146	5	4	190	11.5	196	11.9	—	—	—	—	—	—	5	33	5	33	
Runcorn	23931	24350	2914	12	9	428	17.6	221	9.1	—	—	—	—	1	.06	7	37	5	26	
Sandbach	9253	9580	3716	3	3	133	13.9	91	9.5	—	—	—	—	—	—	9	21	4	9	
Wilmslow	19536	18870	7694	13	3	235	12.5	174	9.2	—	—	—	—	—	—	5	38	3	23	
Winsford	12738	12860	7094	12	8	213	16.6	137	10.7	—	—	—	—	1	.05	2	9	2	9	
Wirral	17362	17040	5639	7	5	228	13.4	197	11.6	—	—	—	1	1	.06	3	14	3	14	
Total Urban Districts	*328064	329430	97374	159	103	4763	14.5	3757	11.4	3	—	—	15	18	.05	111	23	80	17	
RURAL DISTRICTS																				
Bucklow	11185	11650	46103	13	2	212	18.2	115	9.9	1	—	—	—	1	.09	3	14	2	9	Dr. D. Longbottom Dr. W. J. Birchall Dr. L. Rich Dr. T. W. Brindle Dr. L. Rich Dr. R. K. Hay Dr. W. S. Slater Dr. E. N. H. Gray Dr. W. J. Birchall Dr. F. W. C. Brown
Chester	25197	26250	43677	3	13	348	13.3	337	12.8	—	—	—	1	1	.04	10	29	8	23	
Congleton	13261	13320	38704	2	6	185	13.9	256	19.2	—	—	—	3	3	.23	2	11	1	5	
Disley	2865	2936	2208	—	1	29	9.9	31	10.6	—	—	—	—	—	—	2	69	1	34	
Macclesfield	19931	19800	72680	10	8	268	13.5	203	10.3	1	—	—	—	1	.05	4	15	3	11	
Nantwich	27633	27530	100844	9	8	386	14.0	287	10.4	—	—	—	—	—	—	13	34	9	23	
Northwich	37709	41920	57504	26	17	888	21.2	345	8.2	—	—	1	2	3	.07	26	29	13	15	
Runcorn	35573	35800	45765	23	6	488	13.6	368	10.3	—	—	—	1	1	.03	11	23	8	16	
Tarvin	14606	14640	62593	14	5	240	16.4	159	10.9	—	—	—	—	—	—	4	17	1	4	
Tintwistle	1364	1454	11855	—	—	26	17.9	14	9.6	—	—	—	—	—	—	—	—	—	—	
Total Rural Districts	189324	195300	481933	100	66	3070	15.7	2115	10.8	2	—	1	7	10	.05	75	21	46	15	
Administrative County	*824599	831700	622345	443	274	12123	14.6	9362	11.3	5	—	3	31	39	.05	292	24	198	16	* Part Time: D.M.O. for Alsager U.D., Dr. L. Rich † M.O.H. only; D.M.O. for Hoole U.D., Dr. W. J. Birchall

*1951 Census Population for area as amended 1/4/52 by Stockport (Extension) Order, 1952.

